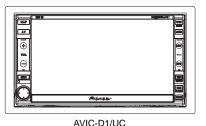
Pioneer sound.vision.soul

Service Manual



ORDER NO. CRT3466

DOUBLE-DIN DVD NAVIGATION SYSTEM

AVIC-D1

This service manual should be used together with the following manual(s):

Model No.	Order No.	Mech.Module	Remarks
CX-3016	CRT3056	MS3	DVD Mech. Module:Circuit Description, Mech. Description, Disassembly
CX-3158	CRT3394	S10.1AAC	CD Mech. Module:Circuit Description, Mech. Description, Disassembly

This product has the unit part number as below.

Unit Part No.	Description
CPN1951	Navigation Unit

^{*)} The unit part numbers listed above are not for the service components.



PIONEER CORPORATION 4-1, Meguro 1-chome, Meguro-ku, Tokyo 153-8654, Japan PIONEER ELECTRONICS (USA) INC. P.O. Box 1760, Long Beach, CA 90801-1760, U.S.A. PIONEER EUROPE NV Haven 1087, Keetberglaan 1, 9120 Melsele, Belgium PIONEER ELECTRONICS ASIACENTRE PTE. LTD. 253 Alexandra Road, #04-01, Singapore 159936 © PIONEER CORPORATION 2005

CAUTION

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.

Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING

This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.

Health & Safety Code Section 25249.6 - Proposition 65

This product contains mercury. Disposal of this material may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or the Electronics Industries Alliance: www.eiae.org.

Service Precautions



1. You should conform to the regulations governing the product (safety, radio and noise, and other regulations), and should keep the safety during servicing by following the safety instructions described in this manual.

DVD MECHANISM MODULE section precaution

- 1. EJECT LOCK MODE for DVD mechanism
 - In order to enter "EJECT LOCK" mode, reset start while pressing the "AV" and "INFO" keys together. Pressing the "AV" and "INFO" keys until monitor backlight is turned on.
 - In order to exit "EJECT LOCK" mode, follow the same steps to enter this mode.
- 2. Before disassembling the unit, be sure to turn off the power. Unplugging and plugging the connectors during power-on mode may damage the ICs inside the unit.
- 3. To protect the pickup unit from electrostatic discharge during servicing, take an appropriate treatment (shorting-solder) by referring to "the DISASSEMBLY".
- 4. After replacing the pickup unit, be sure to skew adjustment.
- 5. During disassembly, be sure to turn the power off since an internal IC might be destroyed when a connector is plugged or unplugged.

CD MECHANISM MODULE section precaution

- 1. Before disassembling the unit, be sure to turn off the power. Unplugging and plugging the connectors during power-on mode may damage the ICs inside the unit.
- 2. To protect the pickup unit from electrostatic discharge during servicing, take an appropriate treatment (shorting-solder) by referring to "the DISASSEMBLY".
- 3. After replacing the pickup unit, be sure to check the grating.













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In this manual, procedures that must be performed during repairs are marked with the below symbol.

Please be sure to confirm and follow these procedures.

1. Product safety



Please conform to product regulations (such as safety and radiation regulations), and maintain a safe servicing environment by following the safety instructions described in this manual.

① Use specified parts for repair.

Use genuine parts. Be sure to use important parts for safety.

2 Do not perform modifications without proper instructions.

Please follow the specified safety methods when modification(addition/change of parts) is required due to interferences such as radio/TV interference and foreign noise.

3 Make sure the soldering of repaired locations is properly performed.

When you solder while repairing, please be sure that there are no cold solder and other debris. Soldering should be finished with the proper quantity. (Refer to the example)

4 Make sure the screws are tightly fastened.

Please be sure that all screws are fastened, and that there are no loose screws.

5 Make sure each connectors are correctly inserted.

Please be sure that all connectors are inserted, and that there are no imperfect insertion.

6 Make sure the wiring cables are set to their original state.

Please replace the wiring and cables to the original state after repairs. In addition, be sure that there are no pinched wires, etc.

Make sure screws and soldering scraps do not remain inside the product.

Please check that neither solder debris nor screws remain inside the product.

® There should be no semi-broken wires, scratches, melting, etc. on the coating of the power cord.

Damaged power cords may lead to fire accidents, so please be sure that there are no damages. If you find a damaged power cord, please exchange it with a suitable one.

(9) There should be no spark traces or similar marks on the power plug.

When spark traces or similar marks are found on the power supply plug, please check the connection and advise on secure connections and suitable usage. Please exchange the power cord if necessary.

10 Safe environment should be secured during servicing.

When you perform repairs, please pay attention to static electricity, furniture, household articles, etc. in order to prevent injuries. Please pay attention to your surroundings and repair safely.

2. Adjustments



To keep the original performance of the products, optimum adjustments and confirmation of characteristics within specification. Adjustments should be performed in accordance with the procedures/instructions described in this manual.

3. Lubricants, Glues, and Replacement parts



Use grease and adhesives that are equal to the specified substance. Make sure the proper amount is applied.

4. Cleaning



For parts that require cleaning, such as optical pickups, tape deck heads, lenses and mirrors used in projection monitors, proper cleaning should be performed to restore their performances.

5. Shipping mode and Shipping screws



To protect products from damages or failures during transit, the shipping mode should be set or the shipping screws should be installed before shipment. Please be sure to follow this method especially if it is specified in this manual.

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General Rated power source14.4 V DC (10.8 - 15.1 V allowable) Grounding systemNegative type Max. current consumption10.0 A Backup current
(10.8 - 15.1 V allowable) Grounding systemNegative type Max. current consumption10.0 A Backup current3.0 mA or less
Max. current consumption10.0 A Backup current3.0 mA or less
Backup current
Backup current 3.0 mA or less
· · · · · · · · · · · · · · · · · · ·
Navigation unit:
Dimensions (W x H x D): DIN
Chassis178 x 100 x 160 mm
(7 x 3-7/8 x 6-1/4 in.)
Nose191 x 114 x 5 mm
(7-1/2 x 4-1/2 x 1/4 in.)
D
Chassis178 x 100 x 165 mm
(7 x 3-7/8 x 6-1/2 in.)
Nose171 x 93 x 24 mm
(6-3/4 x 3-5/8 x 1 in.)
Weight2.9 kg (6.4 lbs)
Navigation GPS Receiver:
SystemL1, C/Acode GPS
SPS (Standard Positioning Service)
Reception system8-channel multi-channel
reception systemreception system
Reception frequency 1,575.42 MHz
Sensitivity130 dBm
Position update frequency
Approx. once per second
GPS antenna:
AntennaMicro strip flat antenna/
right-handed helical polari-
zation
Antenna cable5.0 m (16 ft. 5 in.) Dimensions (W x H x D)
33 x 13 x 36 mm
(1-1/4 x 1/2 x 1-3/8 in.)
Weight105 g(0.23 lbs)
Display Screen size/aspect ratio6.5 inch wide/16:9
(effective display area: 144 x
76 mm)
Pixels
TypeTFT active matrix, transmis-
sive type
Color systemNTSC
Operating temperature range
14 – +122°F
Storage temperature range
4 – +176 °F
Angle adjustment 0 – 21°
(initial settings: 0°)

Audio

	22 W per channel minimum driven 50 to 15,000 Hz with
Maximum power output	.50 W x 4 50 W x 2 ch/4 Ω + 70 W x 1 ch/2 Ω (for subwoofer)
Load impedance	4 Ω (4 – 8 Ω [2 Ω for 1 ch] allowable)
Preout max output level/ou	
Equalizer (3-Band Paramet	
Frequency	40/80/100/160 Hz
	0.35/0.59/0.95/1.15 (+6 dB when boosted)
Gain	±12dB
Mid _	000/500/41/61 11
	200/500/1k/2k Hz
	0.35/0.59/0.95/1.15 (+6 dB when boosted)
Gain High	±120B
_	3.15k/8k/10k/12.5k Hz
. ,	0.35/0.59/0.95/1.15 (+6 dB
	when boosted)
Gain	±12dB
Loudness contour	0.5 15 (400 11.) 0.15 (40
LOW	+3.5 dB (100 Hz), +3 dB (10 kHz)
Mid	+10 dB (100 Hz), +6.5 dB
	(10 kHz)
High	+11 dB (100 Hz), +11 dB
	(10 kHz)
LIDE.	(10 kHz) (volume: –30 dB)
HPF:	(volume: -30 dB)
Frequency	(volume: -30 dB) 50/80/125 Hz
FrequencySlope	(volume: -30 dB) 50/80/125 Hz
FrequencySlopeSubwoofer:	(volume: -30 dB) 50/80/125 Hz12 dB/oct
FrequencySlope	(volume: -30 dB) 50/80/125 Hz12 dB/oct 50/80/125 Hz
FrequencySlopeSubwoofer: Frequency	(volume: -30 dB) 50/80/125 Hz12 dB/oct 50/80/125 Hz18 dB/oct
FrequencySlopeSubwoofer: FrequencySlope	(volume: -30 dB) 50/80/125 Hz 12 dB/oct 50/80/125 Hz 18 dB/oct ±12dB
FrequencySlopeSubwoofer: FrequencySlopeSlope	(volume: -30 dB) 50/80/125 Hz 12 dB/oct 50/80/125 Hz 18 dB/oct ±12dB
Frequency	(volume: -30 dB) 50/80/125 Hz 12 dB/oct 50/80/125 Hz 18 dB/oct ±12dB
Frequency	(volume: -30 dB) 50/80/125 Hz 12 dB/oct 50/80/125 Hz 18 dB/oct ±12dB Normal/Reverse Compact disc audio system
Frequency	(volume: -30 dB) 50/80/125 Hz 12 dB/oct 50/80/125 Hz 18 dB/oct ±12dB Normal/Reverse Compact disc audio system Compact disc
Frequency	(volume: -30 dB) 50/80/125 Hz12 dB/oct 50/80/125 Hz18 dB/oct ±12dB Normal/Reverse Compact disc audio system Compact disc
Frequency	(volume: -30 dB) 50/80/125 Hz 12 dB/oct 50/80/125 Hz 18 dB/oct ±12dB Normal/Reverse Compact disc audio system Compact disc
Frequency	(volume: -30 dB) 50/80/125 Hz12 dB/oct 50/80/125 Hz18 dB/oct±12dB Normal/Reverse Compact disc audio system Compact disc44.1 kHz n bits16; linear
Frequency	(volume: -30 dB) 50/80/125 Hz12 dB/oct 50/80/125 Hz18 dB/oct ±12dB Normal/Reverse Compact disc audio system Compact disc 44.1 kHz h bits 16; linear 5 - 20,000 Hz (±1 dB) 94 dB (1 kHz) (IHF-A net-
Frequency	(volume: -30 dB) 50/80/125 Hz12 dB/oct 50/80/125 Hz18 dB/oct ±12dB Normal/Reverse Compact disc audio system Compact disc 44.1 kHz h bits 16; linear 5 - 20,000 Hz (±1 dB) 94 dB (1 kHz) (IHF-A network)
Frequency	(volume: -30 dB) 50/80/125 Hz12 dB/oct 50/80/125 Hz18 dB/oct ±12dB Normal/Reverse Compact disc audio system Compact disc 44.1 kHz h bits 16; linear 5 - 20,000 Hz (±1 dB) 94 dB (1 kHz) (IHF-A network) 92 dB (1 kHz)
Frequency	(volume: -30 dB) 50/80/125 Hz12 dB/oct 50/80/125 Hz18 dB/oct ±12dB Normal/Reverse Compact disc audio system Compact disc 16; linear 5 - 20,000 Hz (±1 dB) 94 dB (1 kHz) (IHF-A network) 92 dB (1 kHz) 2 (stereo) MPEG-1 & 2 Audio Layer 3
Frequency	(volume: -30 dB) 50/80/125 Hz12 dB/oct 50/80/125 Hz18 dB/oct ±12dB Normal/Reverse Compact disc audio system Compact disc 44.1 kHz h bits 16; linear 5 - 20,000 Hz (±1 dB) 94 dB (1 kHz) (IHF-A network) 92 dB (1 kHz) 2 (stereo) MPEG-1 & 2 Audio Layer 3 . Ver 7, 7.1, 8, 9 (2ch audio)
Frequency	(volume: -30 dB) 50/80/125 Hz12 dB/oct 50/80/125 Hz18 dB/oct ±12dB Normal/Reverse Compact disc audio system Compact disc 44.1 kHz h bits 16; linear 5 - 20,000 Hz (±1 dB) 94 dB (1 kHz) (IHF-A network) 92 dB (1 kHz) 2 (stereo) MPEG-1 & 2 Audio Layer 3 . Ver 7, 7.1, 8, 9 (2ch audio)
Frequency	(volume: -30 dB) 50/80/125 Hz12 dB/oct 50/80/125 Hz18 dB/oct ±12dB Normal/Reverse Compact disc audio system Compact disc 44.1 kHz h bits 16; linear . 5 - 20,000 Hz (±1 dB) 94 dB (1 kHz) (IHF-A network) 92 dB (1 kHz) 2 (stereo) MPEG-1 & 2 Audio Layer 3 . Ver 7, 7.1, 8, 9 (2ch audio) Linear-PCM, MS ADPCM

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AM tuner

Note

 Specifications and the design are subject to possible modifications without notice due to improvements.

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2. EXPLODED VIEWS AND PARTS LIST

NOTES: • Parts marked by "*" are generally unavailable because they are not in our Master Spare Parts List.

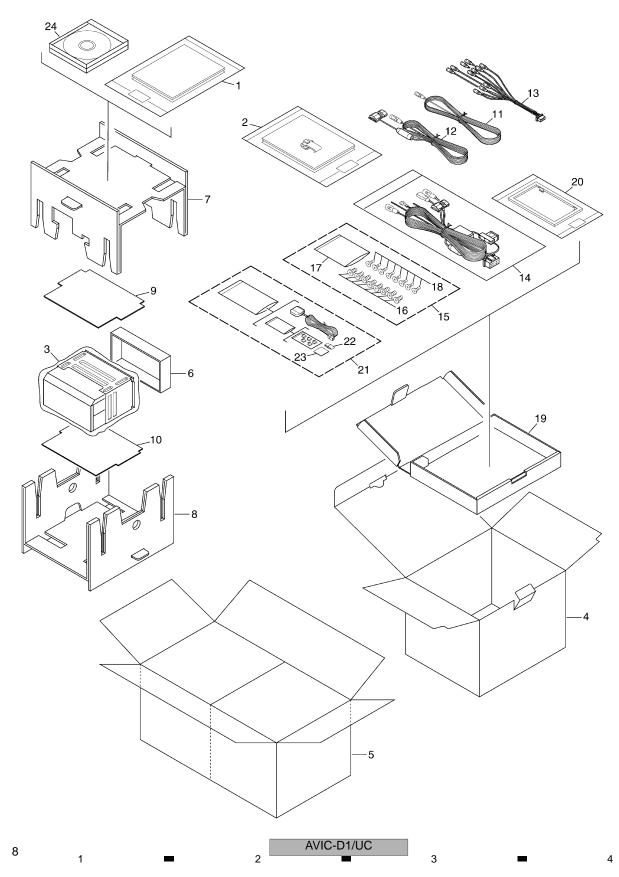
- The \triangle mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Screw adjacent to ∇ mark on the product are used for disassembly.
- For the applying amount of lobricants or glue, follow the instructions in this manual. (In the case of no amount instructions, apply as you think it appropriate.)

2.1 PACKING

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PACKING SECTION PARTS LIST

Mark No. Description Part No.						
	·					
	Card	ARY1048				
	Caution Card	CRP1310				
	Registration Card	CRY1238				
1-4	.,,	CEG1116				
1-5	Owner's Manual/POC/FRE	CRB2091				
1-6	Owner's Manual/POC/FRE	CRB2090				
2-1	Owner's Manual	CRB2088				
2-2	Owner's Manual	CRB2089				
2-3	Installation Manual	CRD3983				
2-4	Connector	CKX1049				
2-5	Polyethylene Bag	CEG1116				
3	Cover	CEG1359				
4	Carton	CHG5523				
5	Contain Box	CHL5523				
6	Protector	CHP2273				
7	Protector	CHP3006				
8	Protector	CHP3006 CHP3007				
9	Protector	CHP3007 CHP3045				
10	Protector	CHP3046				
10	Cord	CDE5044				
11	Cold	CDE3044				
12	Cord	CDE6825				
13	Cord Assy	CDE7838				
14	Cord Assy	CDE7839				
15	Screw Assy	CEA3797				
16	Screw	BMZ50P060FTC				
* 17	Polyethylene Bag	CEG-127				
18	Screw	CMZ50P060FTC				
19	Sub Carton	CHA3298				
20	Panel	CNS8298				
21	GPS Antenna Assy	CXC4864				
22	Water Proof Pad	CZN5442				
23	Sheet	CZN7008				
24	DVD-ROM	CPJ1167				
44	DVD-KOIVI	01 01 107				

Owner's Manual, Installation Manual

Part No.	Language
CRB2088, CRB2089	English
CRB2090, CRB2091	French
CRD3983	English, French

Be careful when ordering parts, as the following unit of this mainframe is described on several pages.

Description	Part No.	PCB name	Reference page and No.
MONI_PANEL Unit	CWM9920	MONITOR PCB	Page 15 No. 18(1/2)
		KEYBOARD PCB	Page 15 No. 18(2/2)
		PANEL PCB	Page 11 No. 58

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2.2 EXTERIOR (1) 20-_{_}37 31 **₹]** 59 **|**−58 Е 28-AVIC-D1/UC

5		6	7	8
EXTERIOR (1) SECTIO	N PARTS L	.IST		

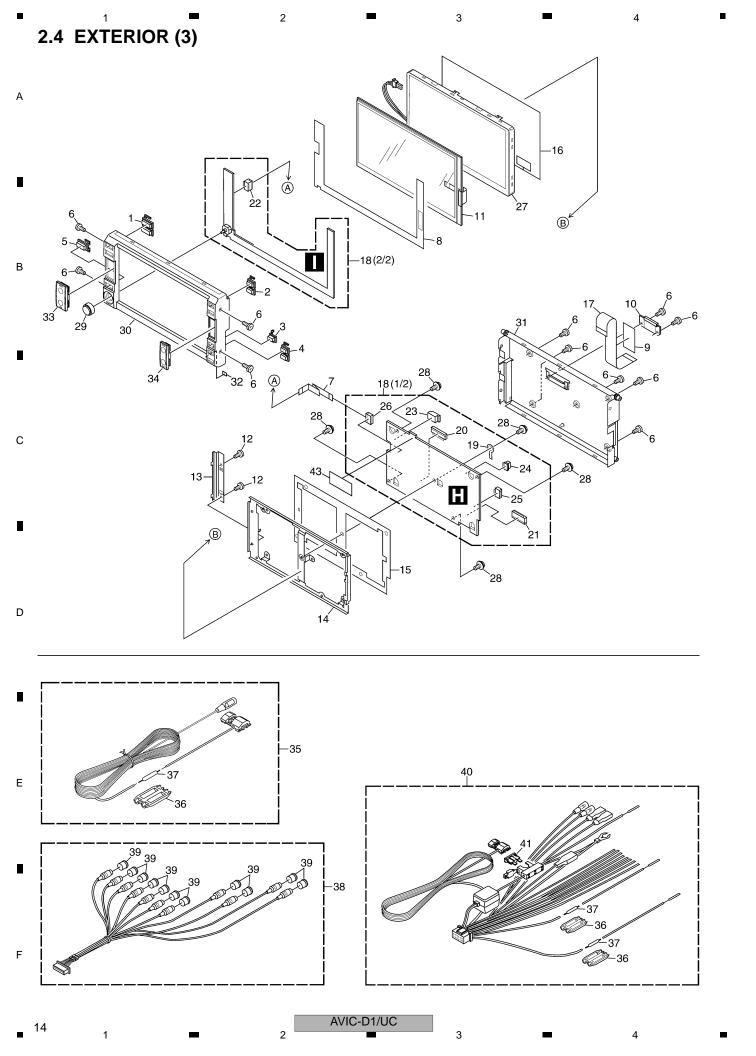
EXTERIO	R (1) SECTION PARTS	S LIST			
Mark No.	<u>Description</u>	Part No.	Mark No.	<u>Description</u>	Part No.
1	Screw	BMZ26P030FTB	50	Holder	CND2669
2	Screw	BMZ26P040FTC			А
3	Screw	BMZ26P060FTB	51	Holder	CND2670
4	Screw	BMZ26P140FTC	52	Holder	CND2671
5	Screw(M2x3)	CBA1527	53	Holder	CND2685
	,		54	Button(CD EJECT)	CAC9119
6	Screw(M3x10)	CBA1637	55	Button(DVD EJECT)	CAC9120
7	Screw(M2x2)	CBA1735			
8	Screw(M2x3)	CBA1877	56	Panel Unit	CXC4435
9	Spring	CBH2888	57	Screw	IMS26P040FTC
10	Cord Assy	CDE7908	58	MONI_PANEL Unit	CWM9920
			59	Connector(CN5901)	CKS4825
11	FFC	CDE8006	60	Chassis Unit	CXC4333 B
12	FFC	CDE8007			_
13	Cord Assy	CDE8008	61	CD Mechanism Module(S10.1AACA)	CXK5668
14	Screw	CMZ50P060FTC	62	DVD Mechanism Module(MS3)	
15	Case	CNB3109	63	Fan Motor	CXM1320
10	Oddo	CNESTOS	64	Screw	ISS26P055FTC
16	Cover	CND1509	65	Tape	CNM9890
17	Holder	CND2682		.420	J
18	Holder	CND2683	66	IC(IC4200)	PAL007B
19	Shield	CND2775	67	Transistor(Q1900, 1902)	2SB1185
20	Holder	CND27794	68	Transistor(Q1922)	2SD2396
20	Holder	CND2794	00	Talisioto (@1522)	C
04	Dracket	CND270E			· ·
21	Bracket	CND2795			
22	Insulator	CNM8550			
23	Insulator	CNM9442			
24	Gasket	CNM9593			_
25	Cushion	CNM9653			
26	Shield	CNM9656			
20 27	Flexible PCB	CNP8450			
28	Heat Sink	CNR1785			
29 30	Cover	CNS8290			D
30	System Unit	CWM9918			
31	Screw	BMZ26P050FTC			
32	FM/AM Tuner Unit	CWE1646			
33	Holder	CND1054			
34	Terminal(CN1302)	CKF1064			I
35	Terminal(CN1303)	CKF1064			_
00	Terrimian(Grv1000)	ON 1004			
36	Terminal(CN1304)	CKF1064			
37	Terminal(CN1305)	CKF1064			
38	Terminal(CN4301)	CKF1064			-
39	Connector(CN1801)	CKM1438			E
40	Connector(CN1401)	CKM1460			
		51 100			
41	Jack(CN1450)	CKN1036			
42	Connector(CN1803)	CKS4822			
43	Connector(CN1301)	CKS4919			
44	Connector(CN1651)	CKS4980			
45	Connector(CN1701)	CKS5110			
		-			
46	Connector(CN1802)	CKS5270			
47	Antenna Jack(CN4300)	CKX1056			F
48	Holder	CND2667			·
49	Holder	CND2668			
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2.3 EXTERIOR (2) 3 69**-**33-A -31 **B**← -19 (D) Е : GEM1024 AVIC-D1/UC

	5	6			7	8	
EXTERIO	OR (2) SECTION F	PARTS LIST					
Mark No.	Description	Part No.	<u>Mark</u>	<u>No.</u>	Description	Part No.	
1	Drive Unit	CXC4423		50	Insulator	CNM9438	
2	Screw(M2x6)	CBA1399					Α
3	Screw(M2x1.5)	CBA1615		51	Insulator	CNM9439	,,
4	Screw(M2x2)	CBA1771		52	GPS Unit	CWX3141	
5	Spring	CZB3092		53	Connector(CN461)	CKS4280	
				54	Connector(CN504)	CKS4432	
6	Spring	CZB3093		55	Shield	CNC9191	
7	Screw	CZB3097					
8	Washer	CZB5003		56	Shield	CNC9192	
9	Shaft	CZL3010		57	Holder	CND1535	
10	Gear	CZN7011		58	Connector(CN2)	DKN1236	
				59	Connector Unit	CWM9921	
11	Gear	CZN7012		60	Terminal(CN2807)	CKF1064	В
12	Gear	CZN7013					
13	Rack	CZN7014		61	Connector(CN2802)	CKS3414	
14	Holder	CZN7015		62	Connector(CN2801)	CKS4590	
15	Roller	CZN7052		63	Connector(CN2806)	CKS4600	
				64	Connector(CN2804)	CKS5209	_
16	Holder	CZN7042		65	Holder(CN58)	CNC2218	
17	Holder	CZN7043					
18	Sheet	CZN7044		66	Holder	CND2673	
19	Main PCB Unit	CZW3097		67	FFC	CDE7864	
20	Screw	BMZ26P050FT0	С	68	FFC	CDE8005	
				69	Screw	ISS26P055FTC	С
21	Connector(CN2)	CKS4600		70	••••		
22	Heat Sink	CND1228					
23	Connector(CN1)	CZK3071		71	Cushion	CNM9416	
24	Transistor(Q1)	2SB1185					
25	Bracket Unit	CZX5101					
26	Motor Unit(FLAP)(M1	10) CZX5102					
27	Chassis Unit	CZX5127					
28	Frame Unit	CZX5160					
29	Screw	JFZ20P020FTC	;				D
30	Washer	YE15S					D
31	CC Unit	CWM9919					
32	Terminal(CN100)	CKF1064					
33	Terminal(CN601)	CKF1064					
33 34	Terminal(CN602)	CKF1064					I
35	Terminal(CN802)	CKF1064					_
55	.3(014002)	OIN 1007					
36	Connector(CN701)	CKS3805					
37	Connector(CN702)	CKS3991					
38	Connector(CN551)	CKS4065					F
39	Connector(CN651)	CKS4473					E
40	Connector(CN801)	CKS4674					
41	Connector(CN605)	CKS5110					
42	Holder	CND2672					
43	Shield	CND2675					_
44	Shield	CND2676					
45	Shield	CND2679					
46	Shield	CND2680					
	Sheet	CND2680 CNM6903					F
47 48	Insulator	CNM9436					Г
48 49	Insulator	CNM9436 CNM9437					
49	moulatul	CINIVI3431					
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■ EXTERIO	5 ECTION PART	6 S LIST	-	7	-	8	•
Mark No.	<u>Description</u>	Part No.					
1	Button(MAP, AV)	CAC9112					
2	Button(OPEN, ANGLE)	CAC9114					Α
3	Button(TRFC)	CAC9115					
4	Button(P.ADJ, MEMO)	CAC9118					
5	Button(SRC)	CAC9429					

CBA1877

CDE8003

CNM9475

CNM9655

CNV5169

CSX1085

CBA1771

CNC9991

CND3075

CNM9567

CNM9803

CNP8744

CWM9920

CKF1064

CKS3968

CKS3991

CKS4130

CKS4428

CKS4496

CKS4675

CKS5208

CWX3229

CXC4417

CXC4434

CXC4436

CNM9862

CXC4455

CXC4456

CDE6825

CNS1472

CDE7838

CNV6727

CDE7839

CEK1136

CNS1472

CNM9858

RS1/2PMF102J

PMB20P040FTC

Screw(M2x3)

Touch Panel

Screw(M2x2)

FFC

Insulator

Cover

Guide

Holder

Holder

Insulator

Insulator

Flexible PCB

MONI_PANEL Unit

Terminal(CN5003)

Connector(CN5002)

Connector(CN5801)

Connector(CN5700)

Connector(CN5331)

Connector(CN5009)

Connector(CN5007)

Connector(CN5008)

LCD Panel

Knob Unit

Grille Unit

Case Unit

Button Unit(VOL)

Button Unit(DEST, INFO)

Sheet

Cord

Cap

Cap

Cap

Shield

Resistor

Cord Assy

Cord Assy

Fuse(10A)

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Screw

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2.5 DVD MECHANISM MODULE(MS3) Α (A) 19-(C) (B) (B) (B) 78-0 В $\overline{\mathbf{h}}_{\overline{(C)}}$ (A) 82 D (D) 39 -108 (A) 96-С (C) 93 (A) (A) (A) (A) 28 ₂₇ (A) (A) 61 D (A) (A) .79 65-(C) 69. (A) 65 64 / 104 88 (B) (A) Е ر 12 (B) (A) 62-0 (A): GEM1045 **4**8 (A) C (B): GEM1043 73-😃 (C): GEM1024 (D): GEM1050 F

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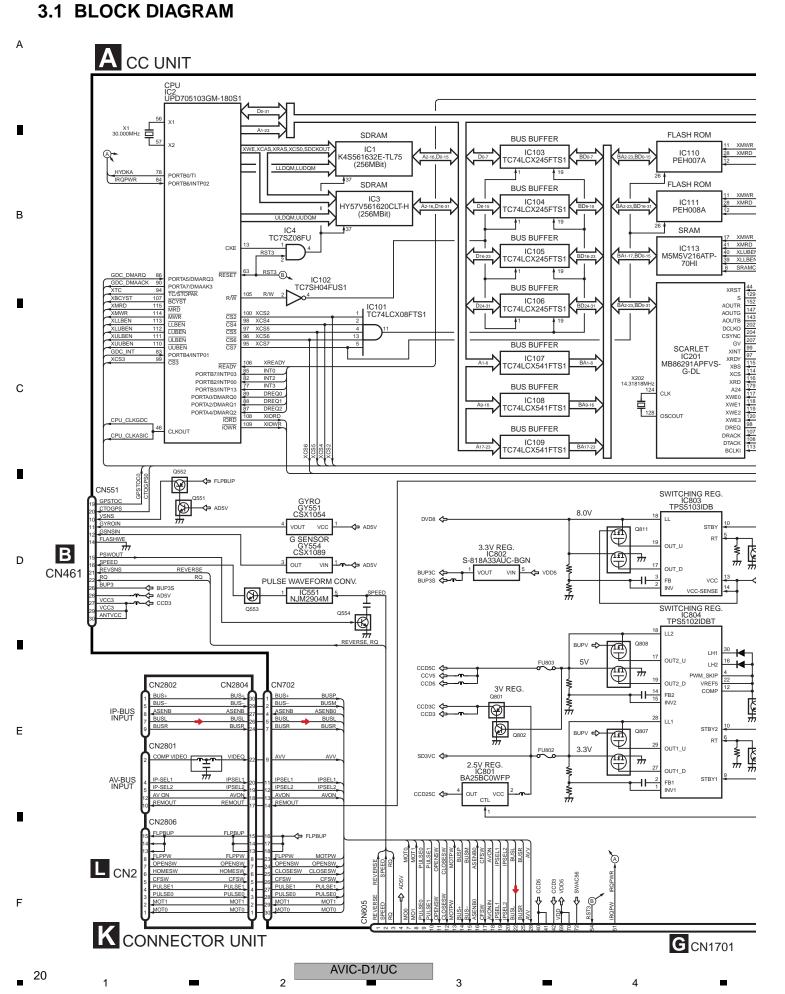
16 AVIC-D1/UC 3 4

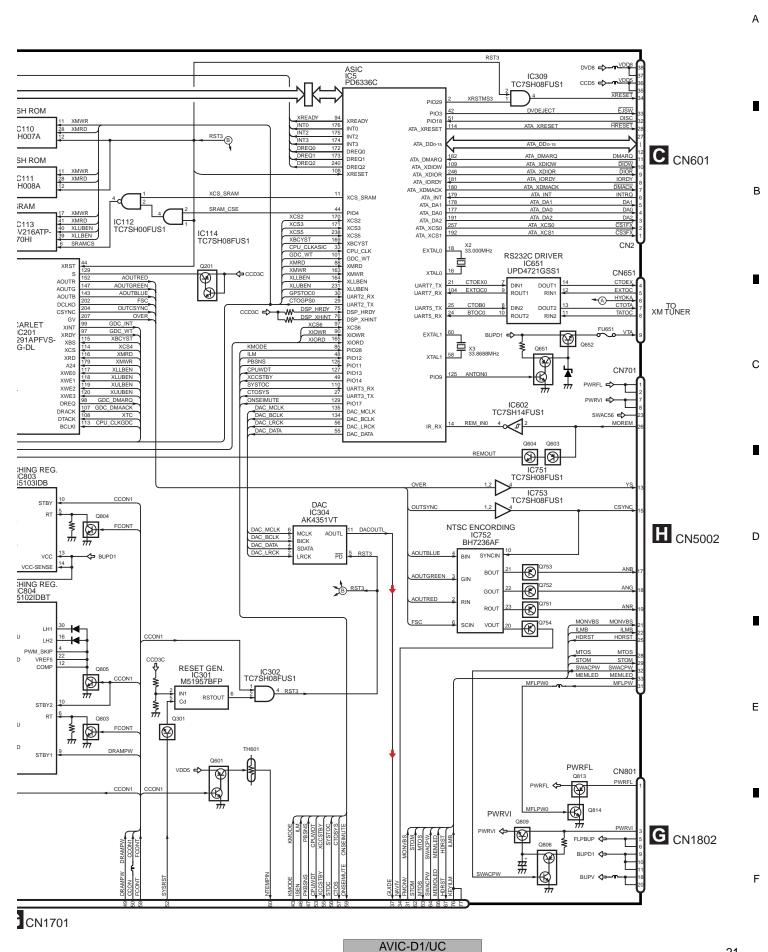
rk No.	<u>Description</u>	Part No.	Mark No.	<u>Description</u>	Part No.	
1	DVD Core Unit(MS3R)	CWX3178		-		
2	Connector(CN601)	CKS5055	56	Arm	CNV7162	
3	•••••	CN35055	* 57	Arm	CNV7163	
		CKSE017	58	Arm	CNV7164	
4	Connector(CN1202)	CKS5017	59	Roller	CNV7165	
5	•••••		60	Arm	CNV7166	
6	•••••				0.111.100	
7	Connector(CN1101)	CKS4842	61	Guide	CNV8093	
8	Connector(CN1201)	CKS5043	62	Gear	CNV7169	
9	Screw	BMZ20P020FTC	63	Gear	CNV7170	
10	Screw(M2 x 3.5)	CBA1571	64	Gear	CNV7171	
10	O010W(WZ X 0.0)	OBICION	65	Gear(Black)	CNV7172	
11	Screw(M2 x 2.5)	CBA1623				
12	Washer	CBF1038	66	Gear	CNV7173	
13	Washer	CBF1064	67	Gear	CNV7174	
14	Spring	CBH2586	68	Rack	CNV7175	
15	Spring	CBH2587	69	Gear	CNV7176	
13	Opinig	ODI 12307	70	Arm	CNV8077	
16	Spring	CBH2588				
17	Spring	CBH2589	71	Lever	CNV7178	
18	Spring	CBH2599 CBH2590	72	Lever	CNV7179	
19	Spring	CBH2590 CBH2591	73	Screw	IMS20P030FTC	
			74	Gear	CNV7181	
20	Spring	CBH2592	75	Holder	CNV7183	
21	Carina	CBH2593		110.001	01177100	
21	Spring		76	Holder	CNV7184	
22	Spring	CBH2594	77	Guide	CNV7745	
23	Spring	CBH2595	78	Roller	CNV7344	
24	Spring	CBH2596	78 79	Damper	CNV7344 CNV7470	
25	Spring	CBH2597	80	Damper	CNV7470 CNV7471	
00	0.000	ODLIGEO	00	Damper	CINVT4TI	
26	Spring	CBH2598	81	Collar	CNV7645	
27	Spring	CBH2599			CWX3154	
28	Spring	CBH2600	82	Compound Unit(A)		
29	Spring	CBH2601	83	Screw(M1.4x1.4)	CBA1787	
30	Spring	CBH2602	84	Compound Unit(B)	CWX3156	
			85	Washer	YE20FTC	
	Spring	CBH2603	00	Objection Help	0)/00000	
32	Spring	CBH2604	86	Chassis Unit	CXC3629	
33	Spring	CBH2605	87	Arm Unit	CXB8681	
34	Spring	CBH2711	88	Frame Unit	CXB8683	
35	Spring	CBL1564	89	Arm Unit	CXC4701	
			90	Bracket Unit	CXB8685	
36	Pickup Unit(Service)	CXX1640	04	Maria a Hairii OADINO (MA)	0.000	
37	Shaft	CLA3881	91	Motor Unit(LOADING)(M1)	CXC4659	
38	Shaft	CLA4206	92	Motor Unit(CARRIAGE)(M2)	CXC4314	
39	Shaft	CLA4207	93	Screw Unit	CXB8689	
40	Lever	CNC9933	94	Roller Unit	CXB8690	
			95	Motor(SPINDLE)(M3)	CXM1308	
41	Holder	CNC9939	= .	•	JE7000015	
42	Holder	CND2251	96	Screw	JFZ20P018FTC	
43	Holder	CNC9941	97	Photo-transistor(Q1299)	CPT231SCTD	
44	Frame	CND2250	98	Switch(S1201)	CSN1069	
45	Sheet	CNM6883	99	Spring Switch(S1204)	CSN1070	
			100	Resistor(R1298)	RS1/16S0R0J	
46	Sheet	CNM8283				
47	Sheet	CNM8643		Guide	CNV7615	
48	Lever	CNV8076	102	,	CBA1572	
49	Lever	CNV7155	103		CNV7742	
50	Cam	CNV7156	104		CNV7743	
			105	Spring	CBH2710	
51	Rack	CNV7157				
52	Clamper	CNV7158	106	Spring	CBL1643	
53	Arm	CNV7159	107	Spring	CBH2712	
54	Arm	CNV7160	108	Pickup Unit(Service)(Screw)	GXX1234	
٠.				Screw Assy	CXX1750	
55	Arm	CNV7161	103	Colow 7 (SS)	07/7/17/00	

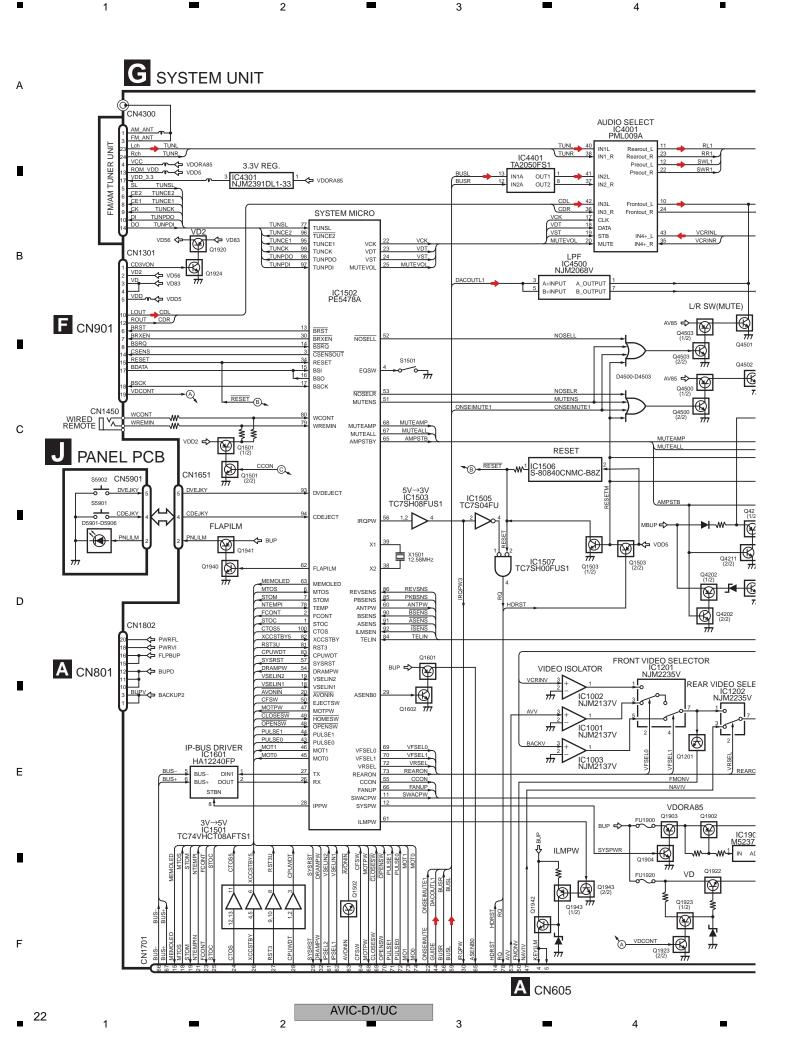
2.6 CD MECHANISM MODULE(S10.1AACA) 3 13— 23 38 76 B 59[′] 1 ①GEM1024 ②GEM1045 3GEM1035 70[′] Е 31-65--85 AVIC-D1/UC

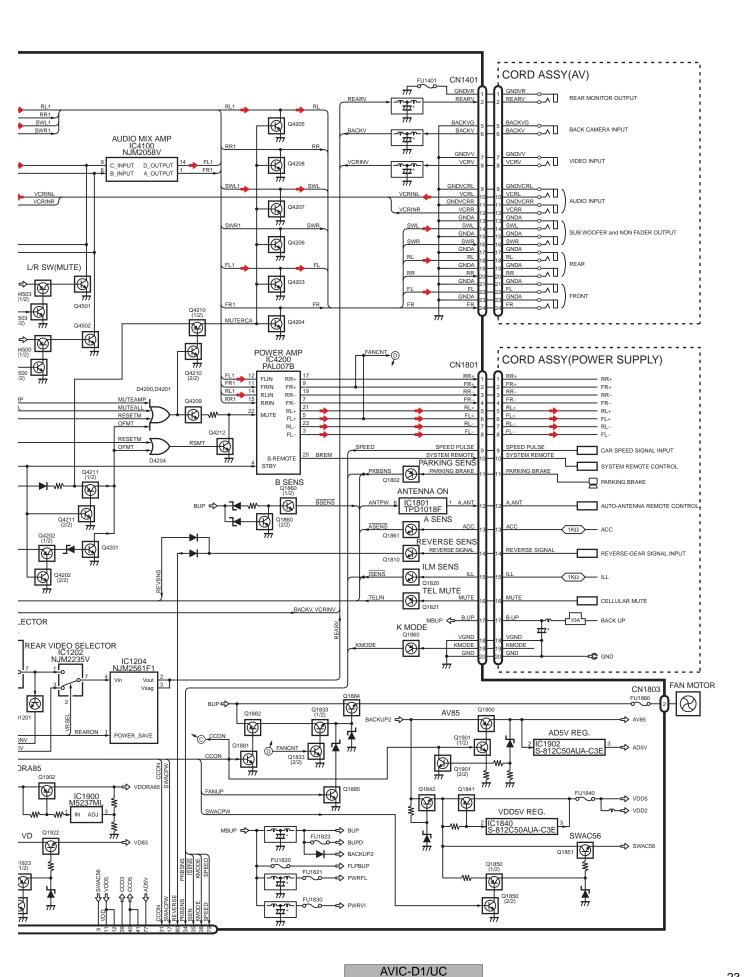
■ CD MEC	5 HANISM MODULE(S	6 10.1AACA) SECTION PA	■ ARTS LIST	7	8	
Mark No.	<u>Description</u>	Part No.	Mark No.	<u>Description</u>	Part No.	
1	CD Core Unit(S10.1)	CWX3096	50	Gear	CNV8379	
2	Connector(CN101)	CKS4182				А
3	Connector(CN901)	CKS4017	51	Gear	CNV8380	A
4	Screw	BMZ20P035FTC	52	Gear	CNV8381	
5	Screw	BSZ20P040FTC	53	Gear	CNV8382	
Ū	Colow	202201 0401 10	54	Gear	CNV8383	
6	Screw(M2x4)	CBA1362	55	Gear	CNV8384	
7	Screw(M2x3)	CBA1824				
	, ,		56	Rack	CNV8385	
8	Screw(M2x3)	CBA1825	57	Arm	CNV8386	
9		0054000	58	Arm	CNV8387	
10	Washer	CBF1038	59	Guide	CNV8388	
	144	0051000	60	Roller	CNV7218	
11	Washer	CBF1060	00	Kollei	CINVIZIO	В
12	Spring	CBH2390	C4	0	CNI\/0200	
13	Spring	CBH2606	61	Gear	CNV8389	
14	Spring	CBH2607	62	Arm	CNV8391	
15	Spring	CBH2608	63	Arm	CNV8390	
			64	Arm	CNV8392	
16	Spring	CBH2609	65	Damper	CNV7313	_
17	Spring	CBH2610				
18	Spring	CBH2735	66	Damper	CNV7314	
19	Spring	CBH2612	67	Arm	CNV8394	
20	Spring	CBH2613	68	Arm	CNV8395	
			69	Guide	CNV8396	С
21	Spring	CBH2614	70	Guide	CNV8397	
22	Spring	CBH2615				
23	Spring	CBH2616	71	Holder	CNV8398	
24	Spring	CBH2617	72	Arm	CNV8402	
25	Spring	CBH2620	73	Gear	CNV8400	_
20	Opining	OBI 12020	74	Damper	CNV7618	
26	Carina	CDI I2624	75	Motor Unit(M1)	CXC4440	
26	Spring	CBH2621		motor Grin(mr)	0,101110	
27	Spring	CBH2641	76	Chassis Unit	CXC2318	
28	Spring	CBH2642	77	Screw Unit	CXB8729	
29	Spring	CBH2643	78	Gear Unit	CXC2397	D
30	Spring	CBH2659				
			79	Arm Unit	CXC2316	
31	Spring	CBH2688	80	Arm	CND1896	
32	•••••				0115.400.4	
33	Shaft	CLA4441	81	Arm	CND1894	_
34	Frame	CNC9962	82	Motor Unit(M2)	CXB8933	
35	Frame	CNC9963	83	Bracket	CNC9985	
			84	•••••		
36	Bracket	CND2712	85	Screw(M2x5)	EBA1028	
37	Bracket	CND1895				
38	Arm	CNC9968	86	Screw	JFZ20P020FTC	Е
39	Arm	CND1909	87	Screw	JGZ17P022FTC	-
40	Lever	CND2032	88	•••••		
			89	Washer	YE20FTC	
41	Lever	CNC9984	90	Pickup Unit(P10)(Service)	CXX1641	
42	Sheet	CNM8134				
43	Collar	CNV7798	91	Screw	IMS26P030FTC	
44	Guide	CNV7799	92	Spring	CBL1635	
45	Arm	CNV8403	93	Clamper	CNV8372	
40	, 1111	CITYUTUU		•		
46	Rack	CNV8374				
						F
47	Holder	CNV8376				Г
48	Holder	CNV8377				
49	Arm	CNV8378				
				_		
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3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM









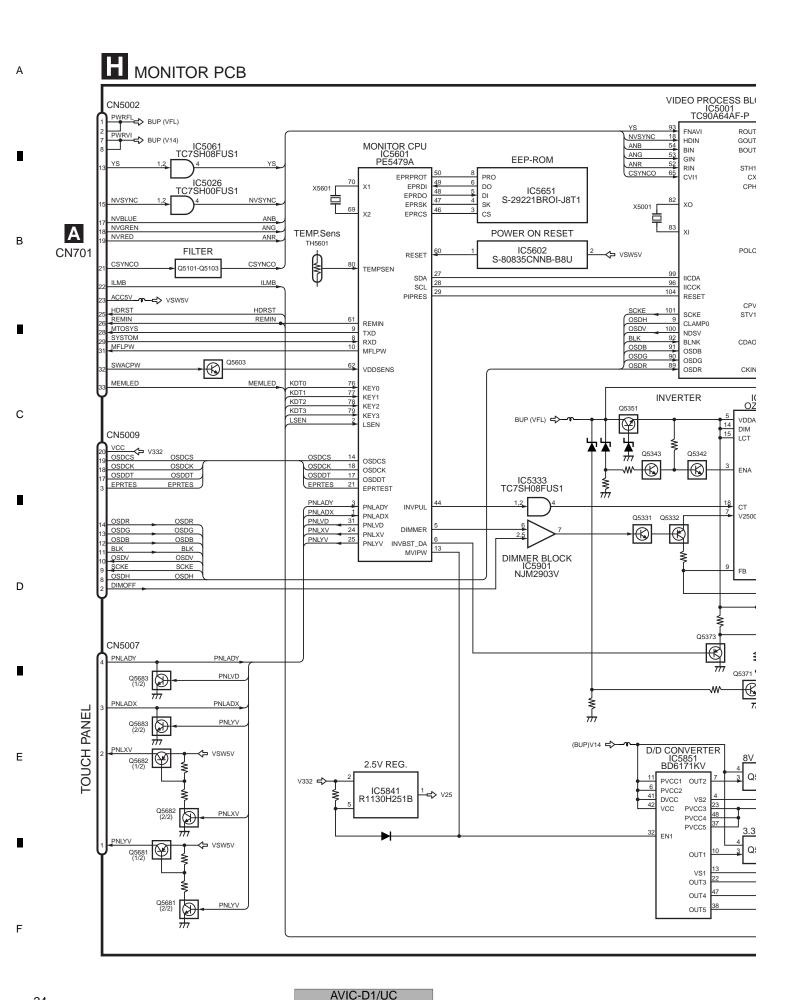
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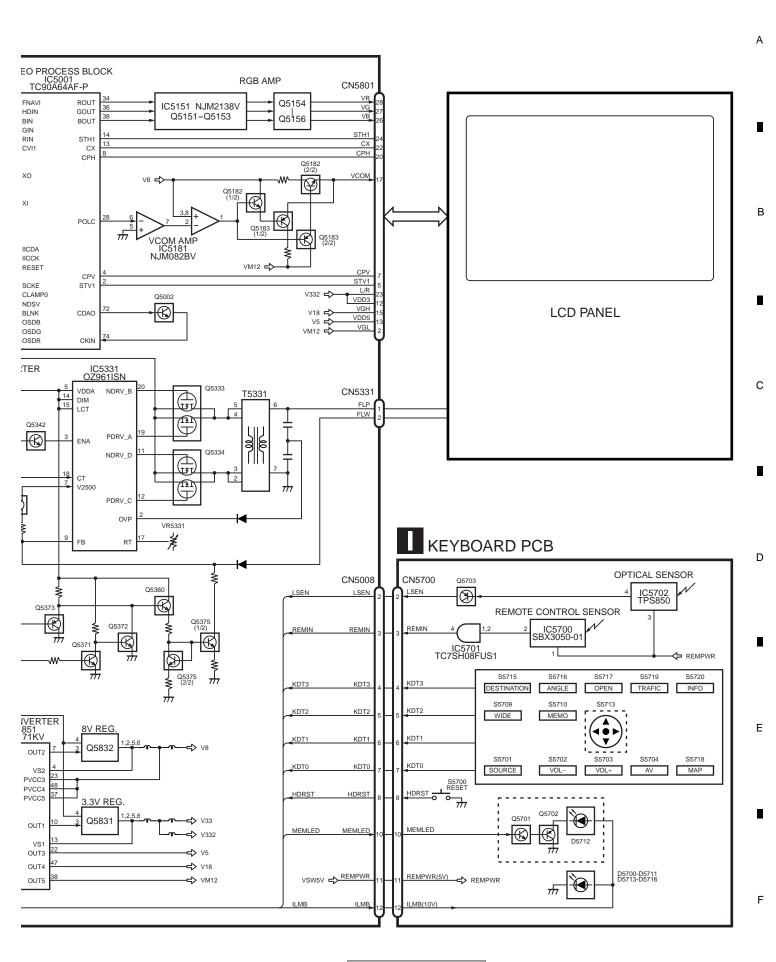
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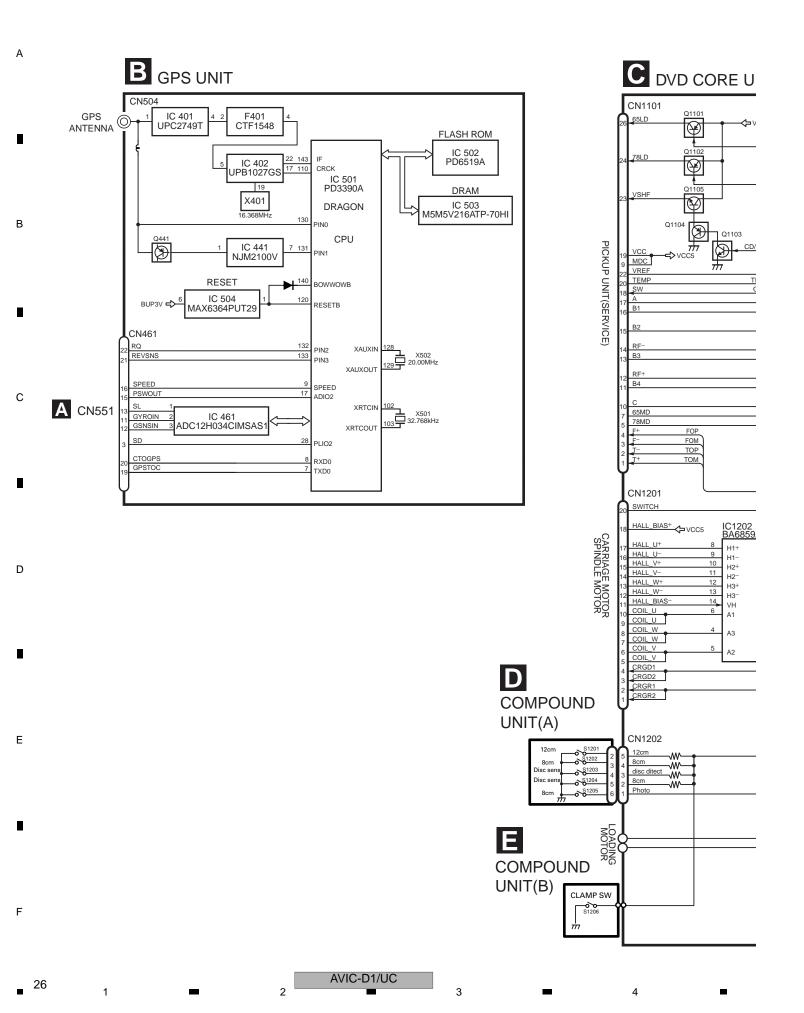
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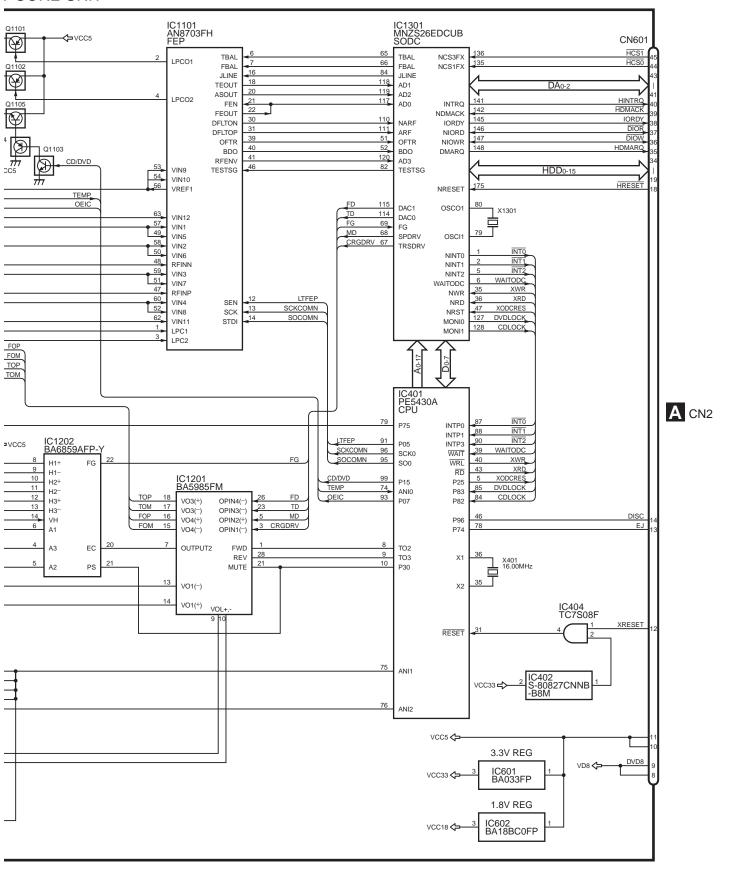


■ 6 **■** 7 **■** 8

) CORE UNIT

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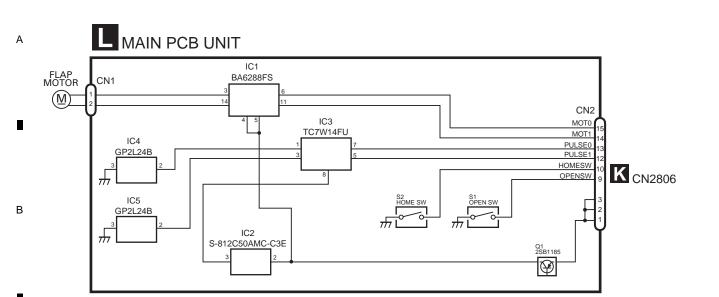
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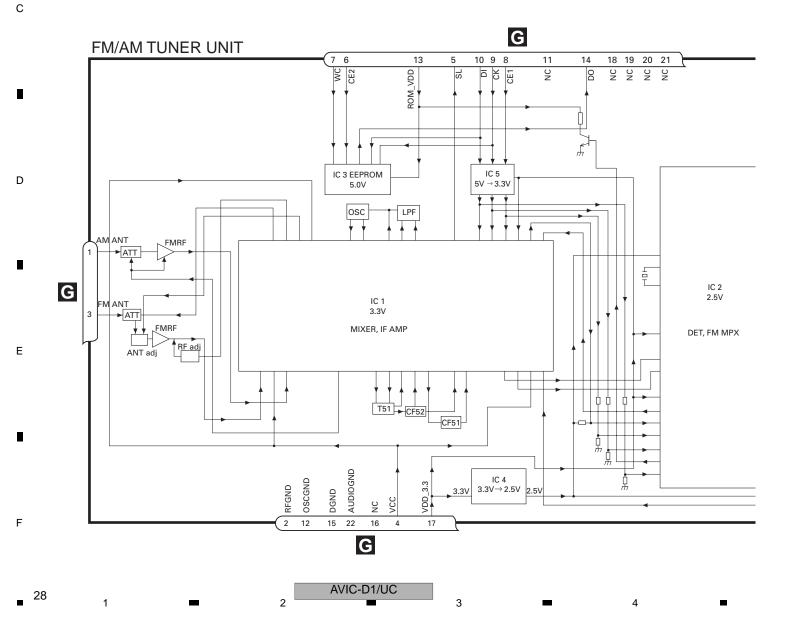
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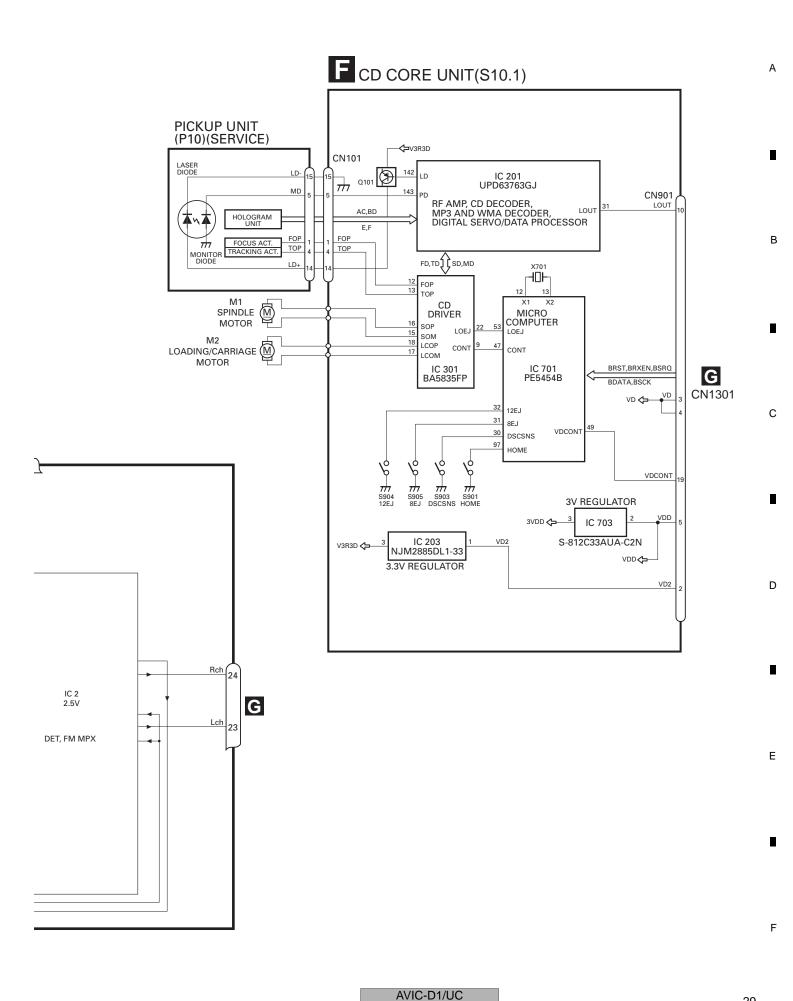
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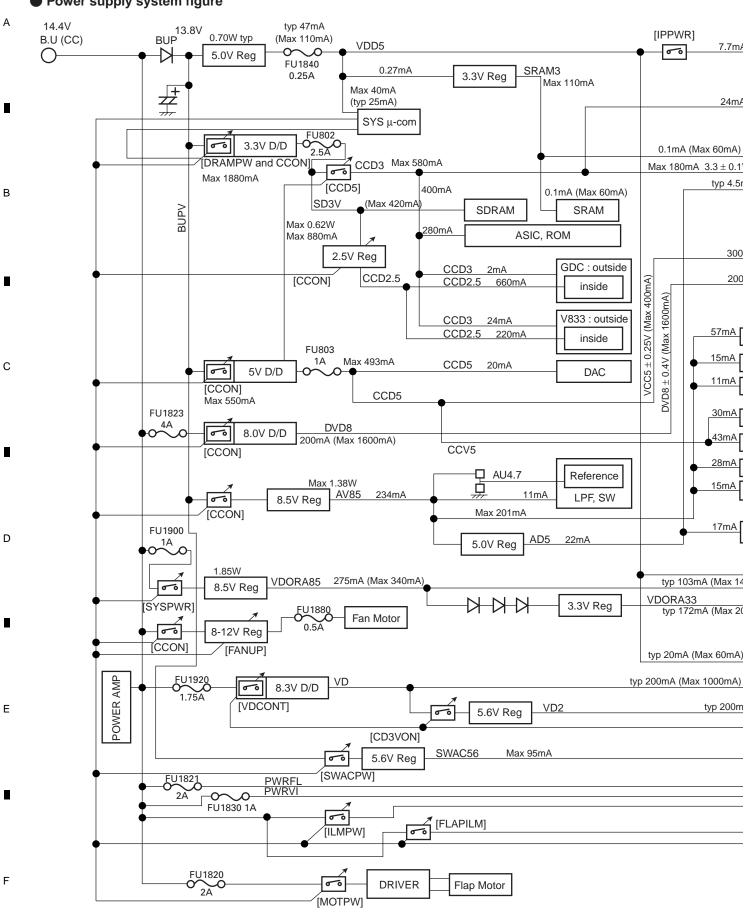
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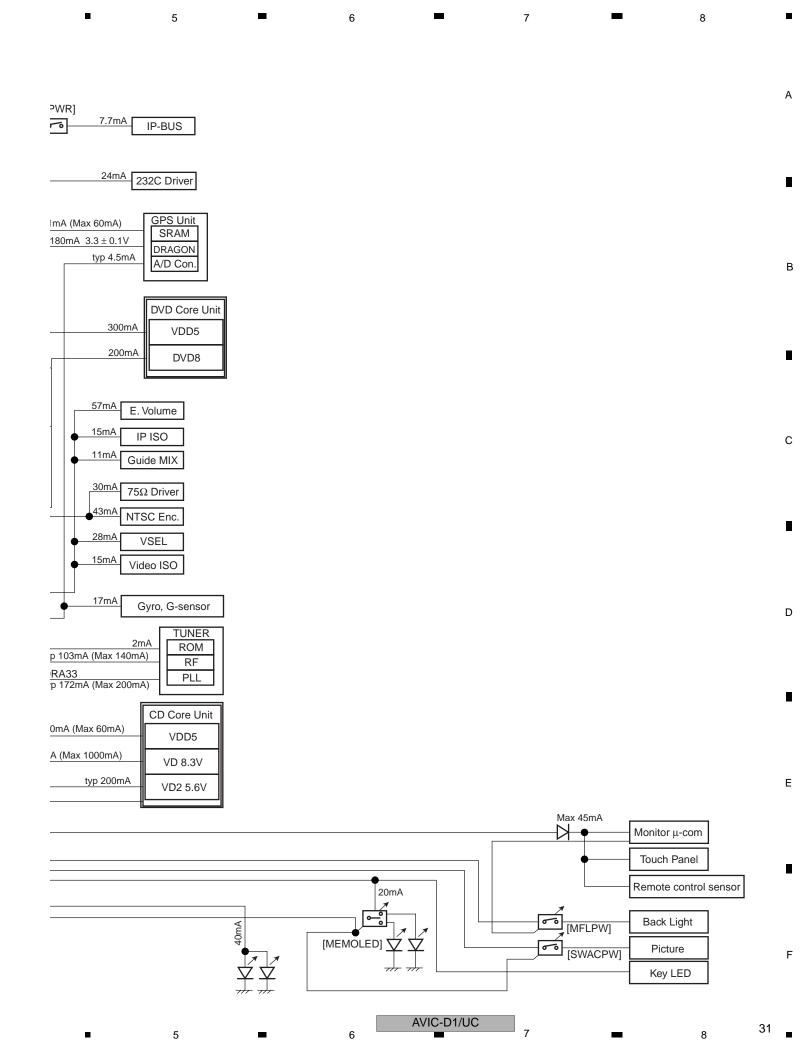




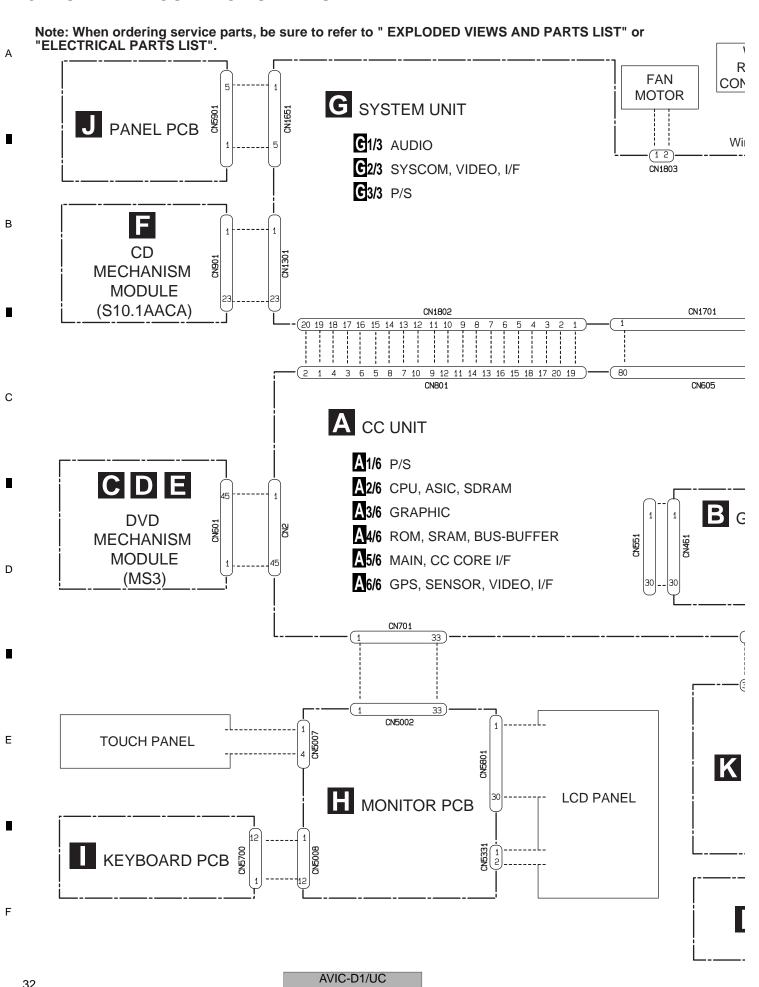
Power supply system figure

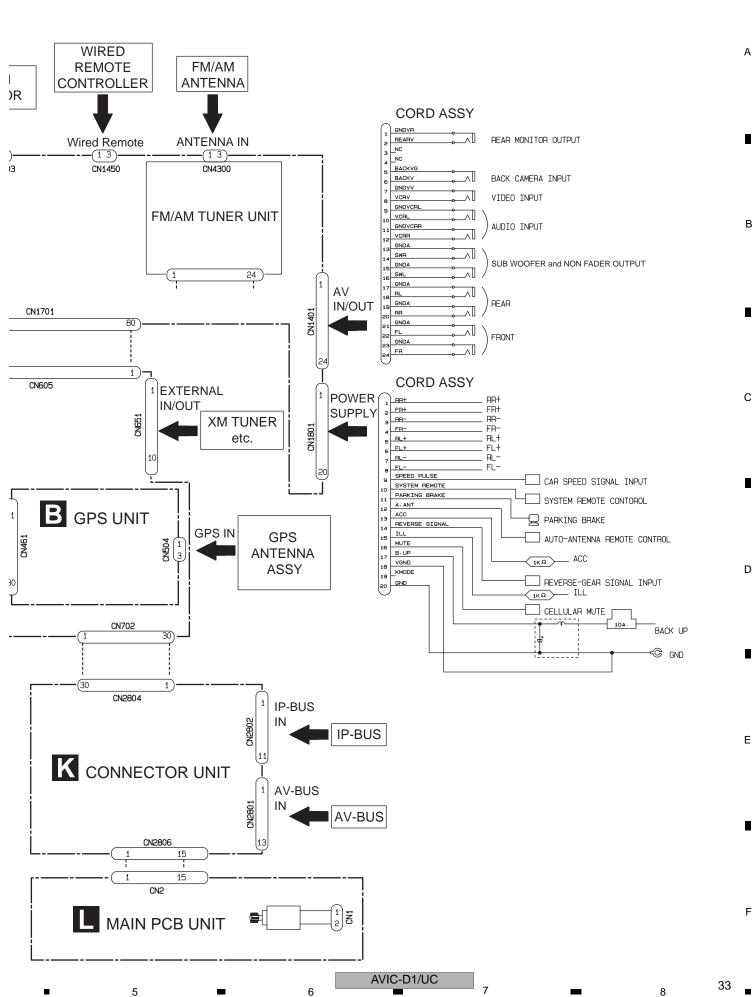


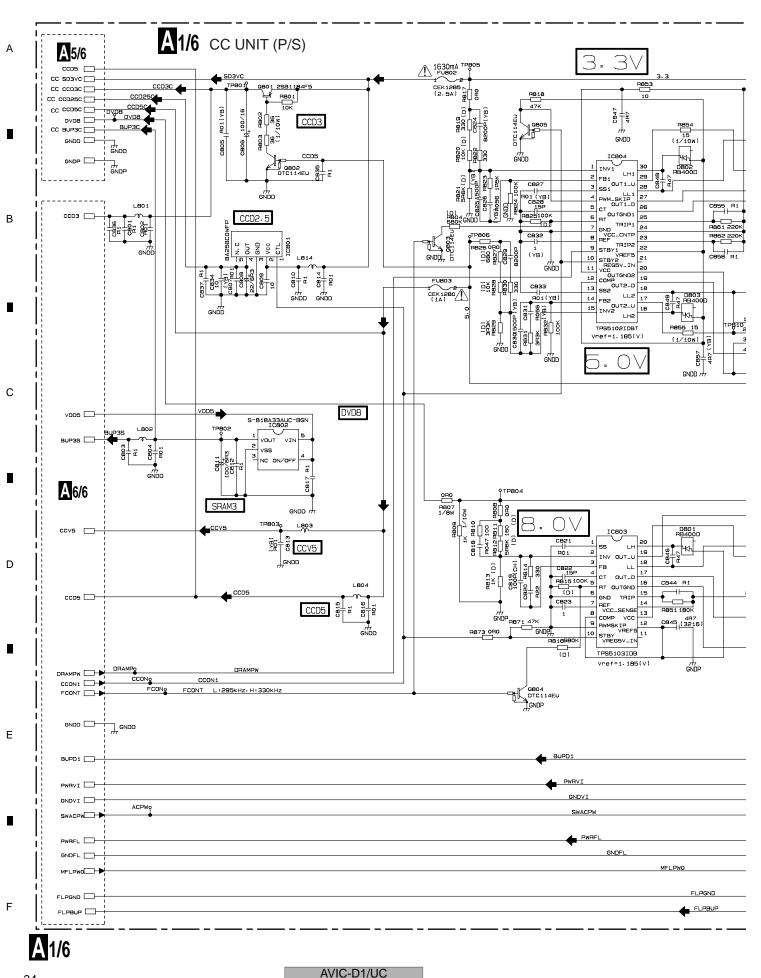
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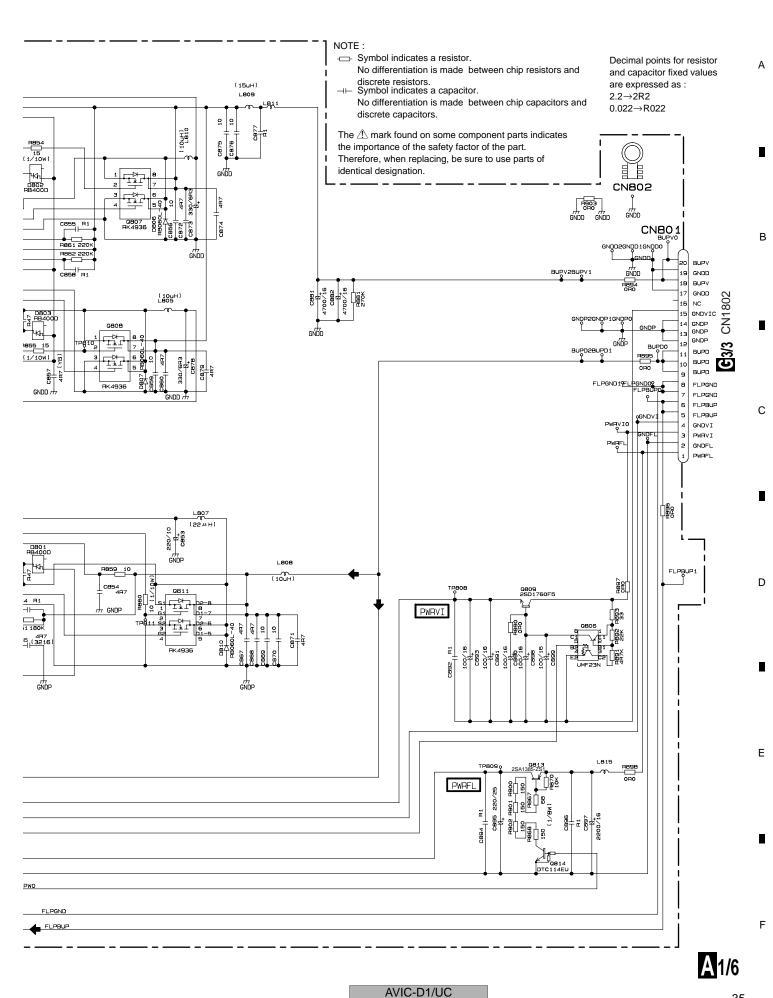


3.2 OVERALL CONNECTION DIAGRAM

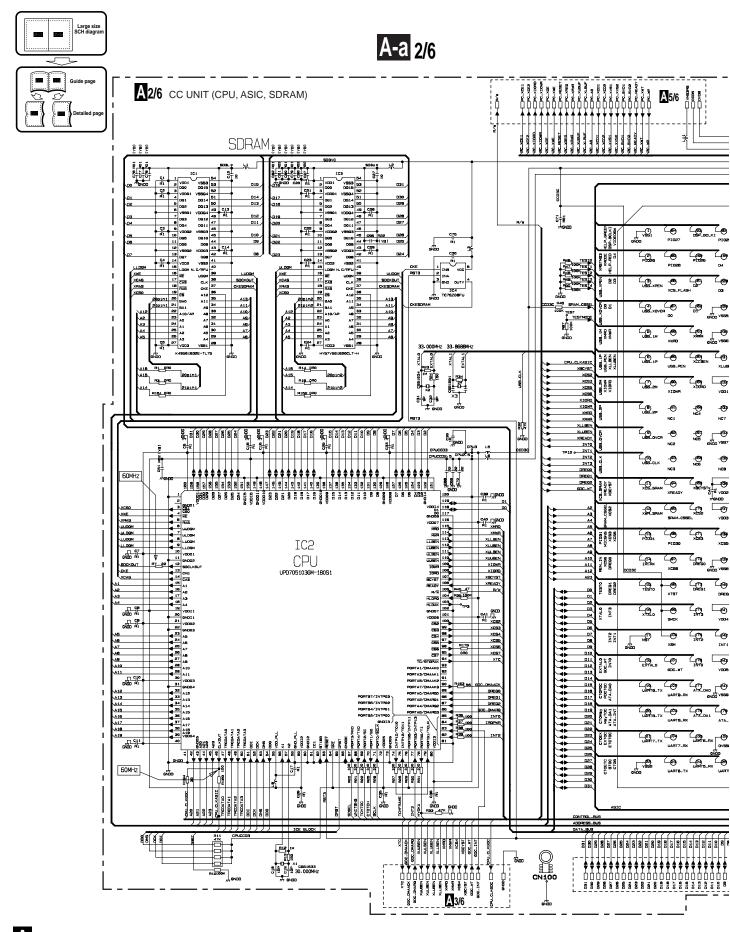






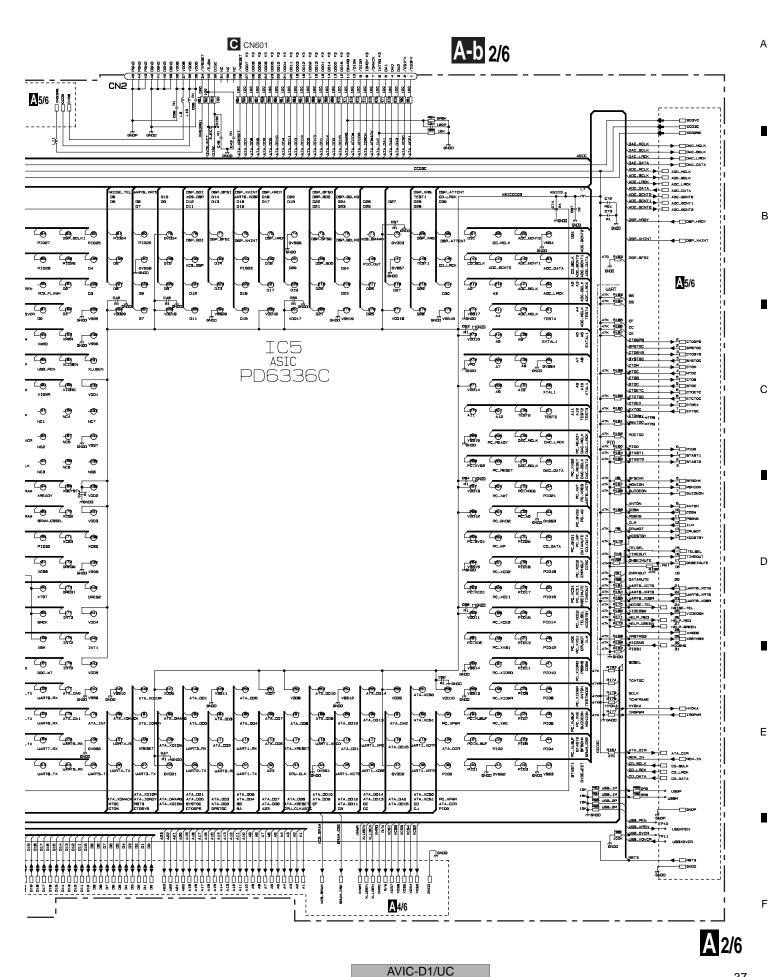


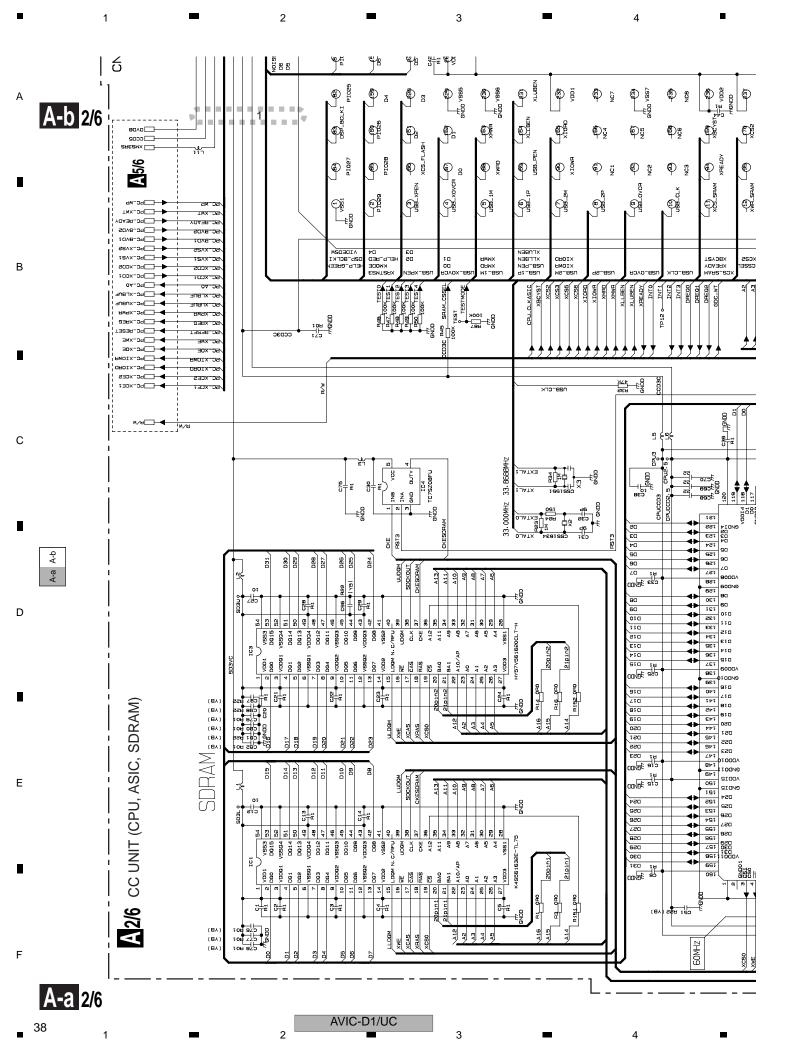
3.4 CC UNIT (CPU, ASIC, SDRAM)(GUIDE PAGE)

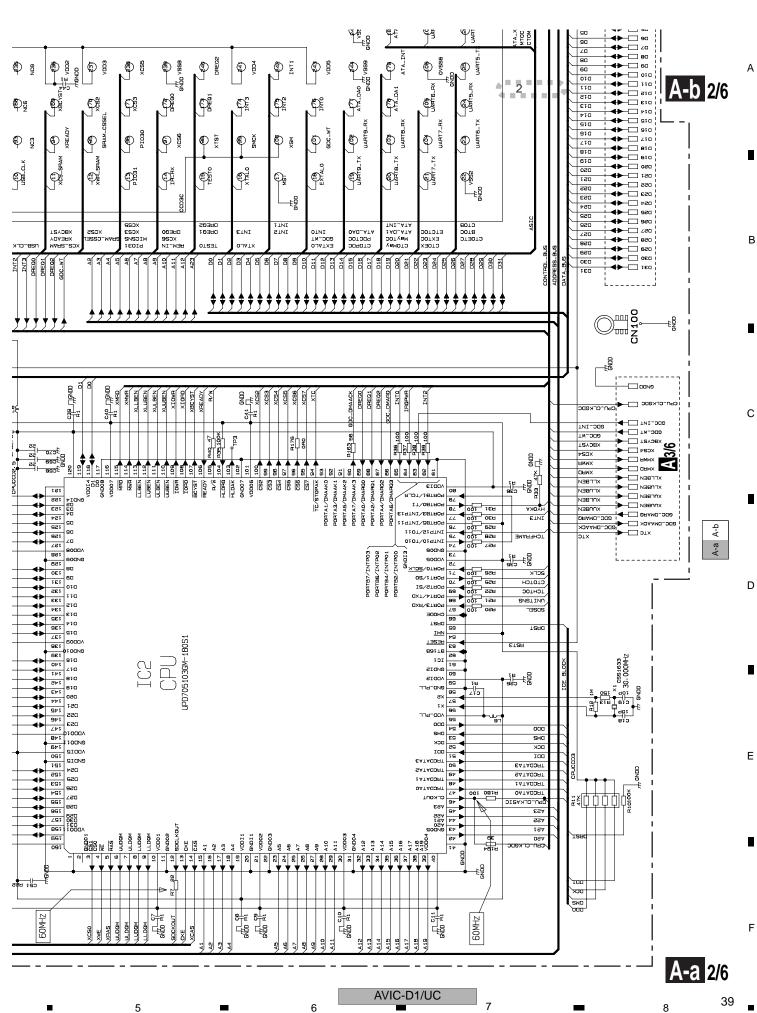


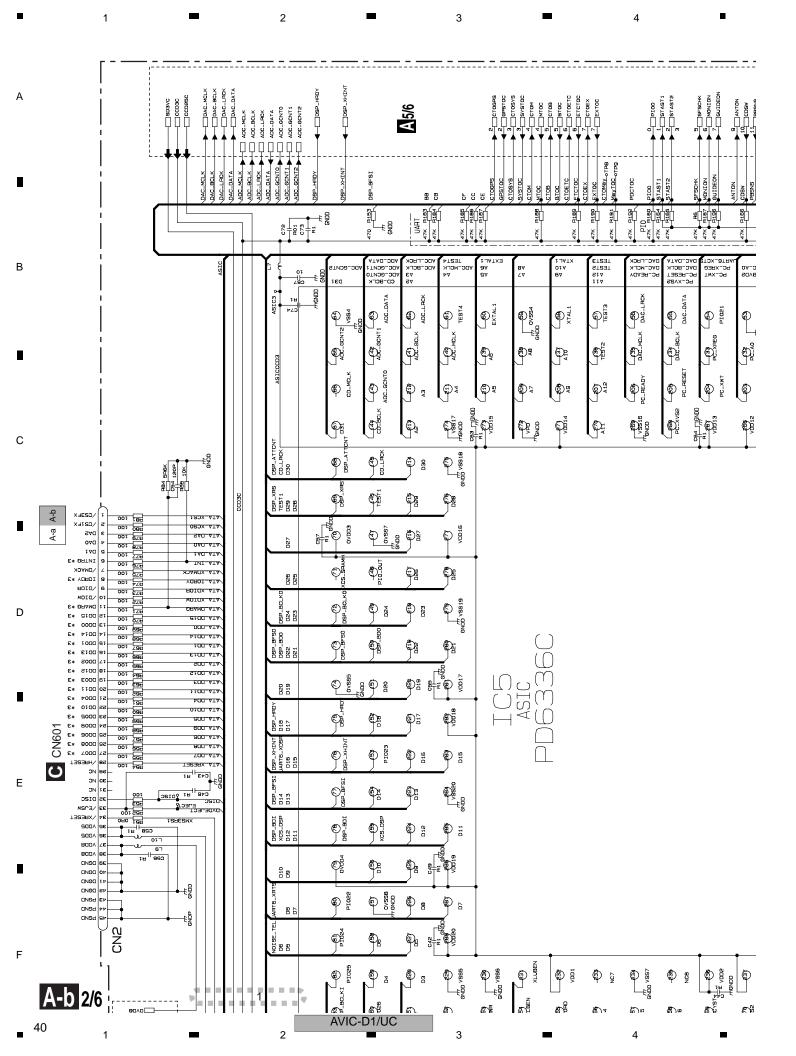
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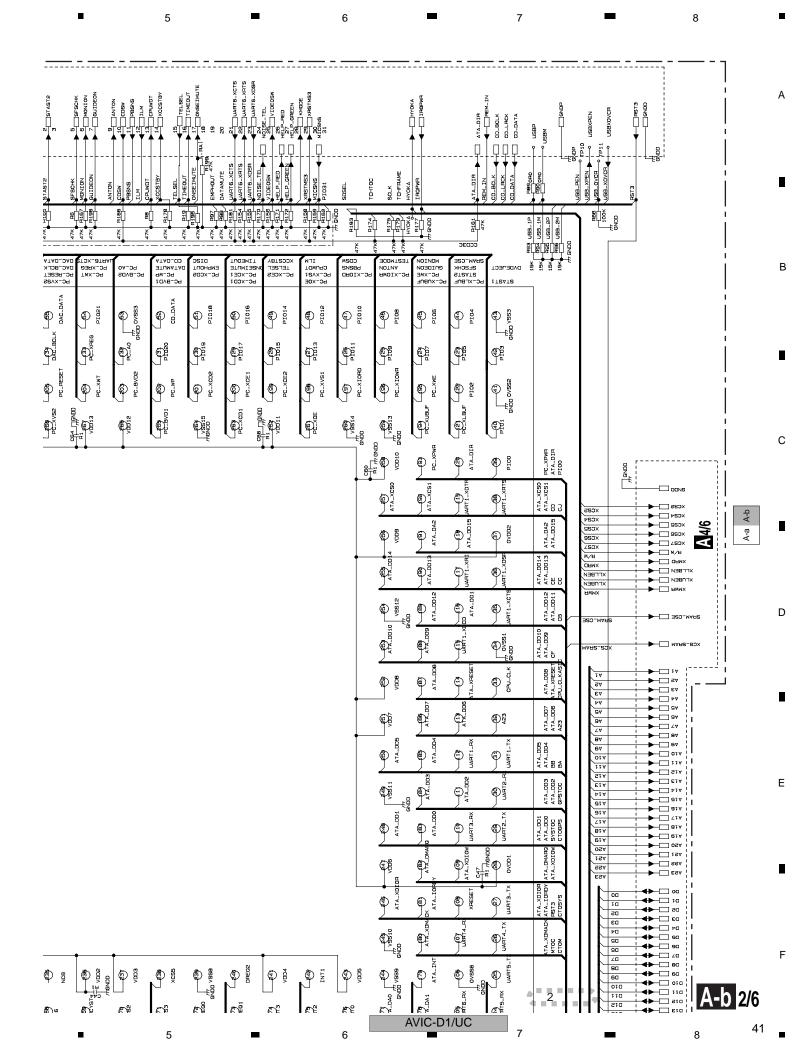
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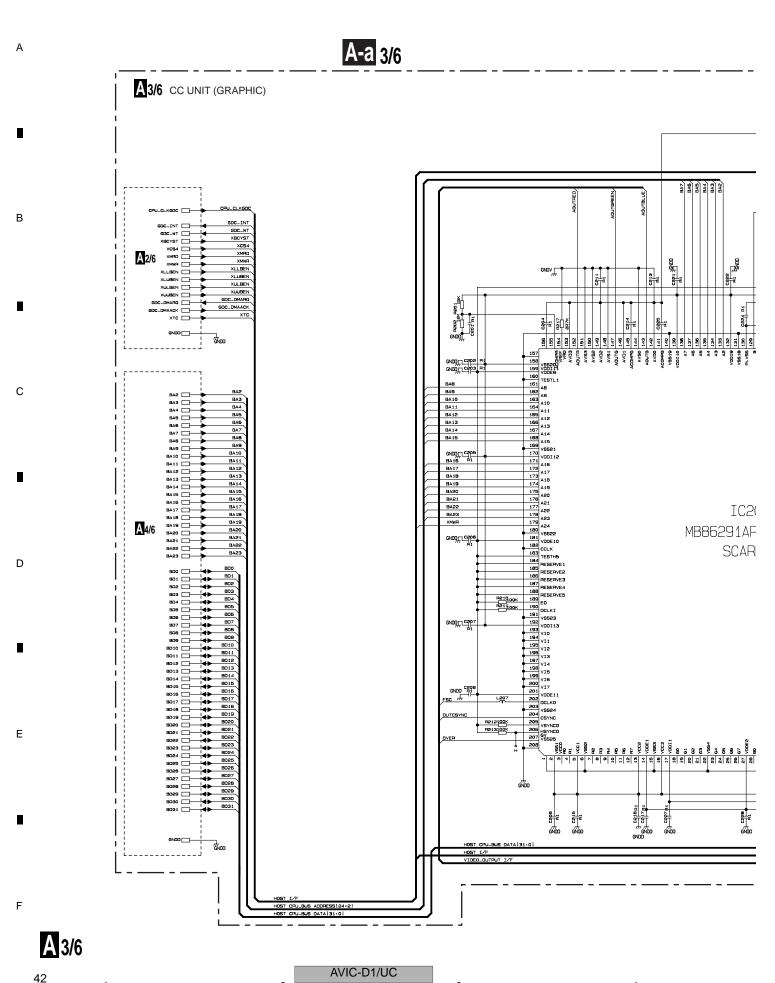


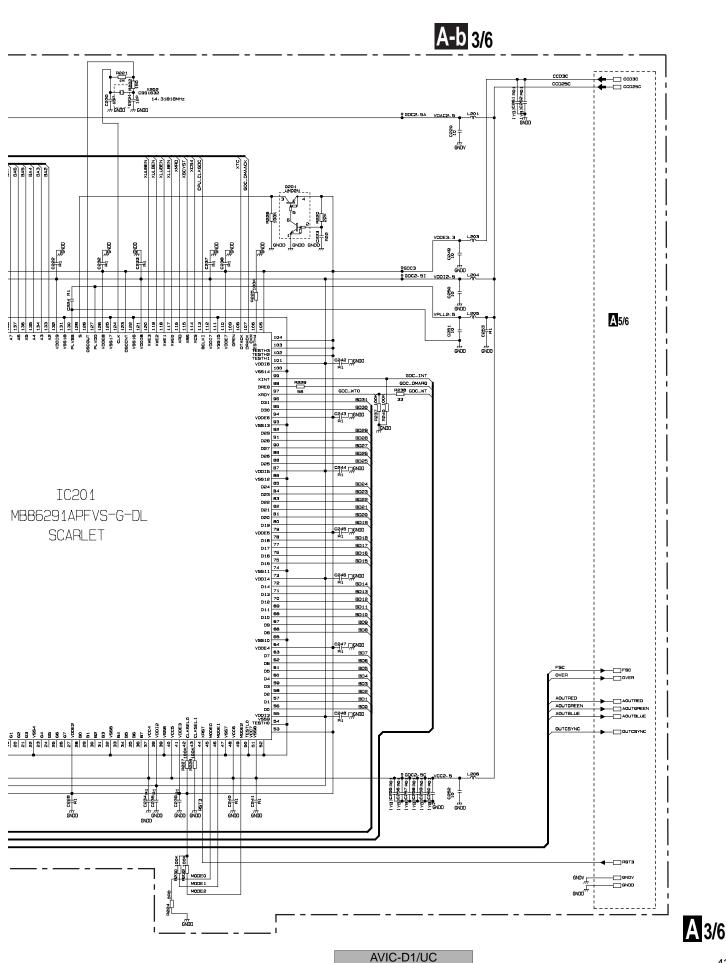






3.5 CC UNIT (GRAPHIC)(GUIDE PAGE)



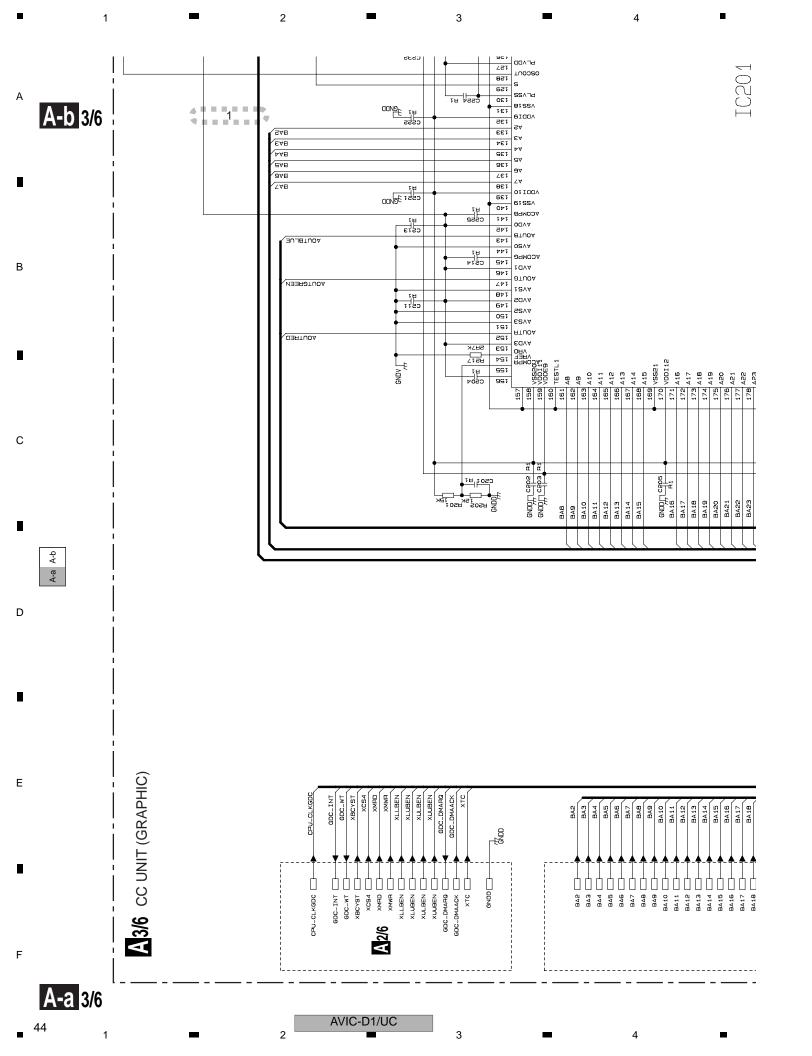


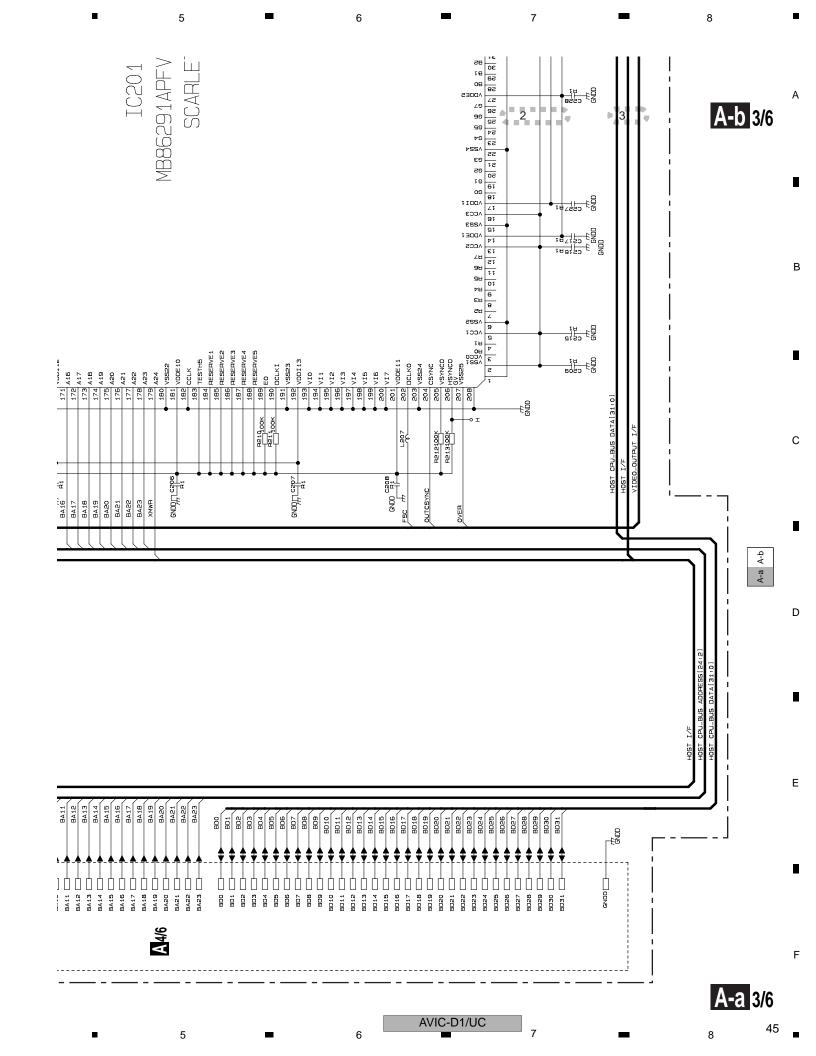
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____ ccb3c A 5/6 CCD3C (VB)CS61 HO1 Sa csa 203 203 GNDD CNDD 10 10 10 VDDE3.3 VDDI2.5 C549 10 CS20 c521 6DC_DMARQ R238 GDC_WT 9 GDC2. 5A GDC_INT 15 enca enca A-b BS37 100k A-a BD31 BD24 BD23 BD22 BD30 Cq427JGNDD CZ437JGNDD R1 GDC_WT0 R229 | 104 | 105 | 106 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 100K USSe аамэ HSS2 TOOK ∠01 eDC-DMAACK DTACK 801 XTC. ОБЕИ 901 ∠∃QQ∧ 110 111 ∠ا۵۵۸ 115 EII сьп-сгкевс SOX XC24 114 Sex XBCYST 911 анх анмх 116 XMEO XLLBEN XMET XLUBEN 911 XMES XULBEN XME3 XOUBEN csaa jendd 150 121 9100v 155 тиээво 153 СГК 154 CS3S ∠≀ss∧ 152 156 aavaa 157 TUODEO 158 821 S SE1 SA 8122V 8122V 8122V 8122V CSS4 BI CSSS CNDD A-b 3/6 1 AVIC-D1/UC 2 3

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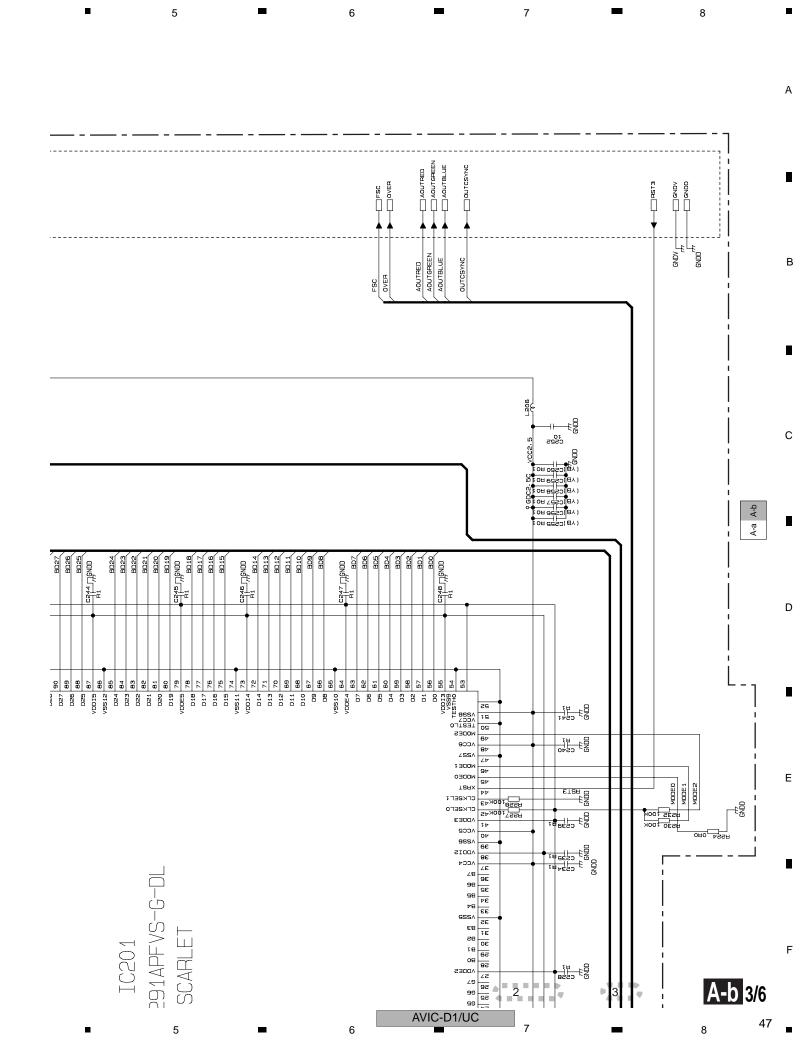
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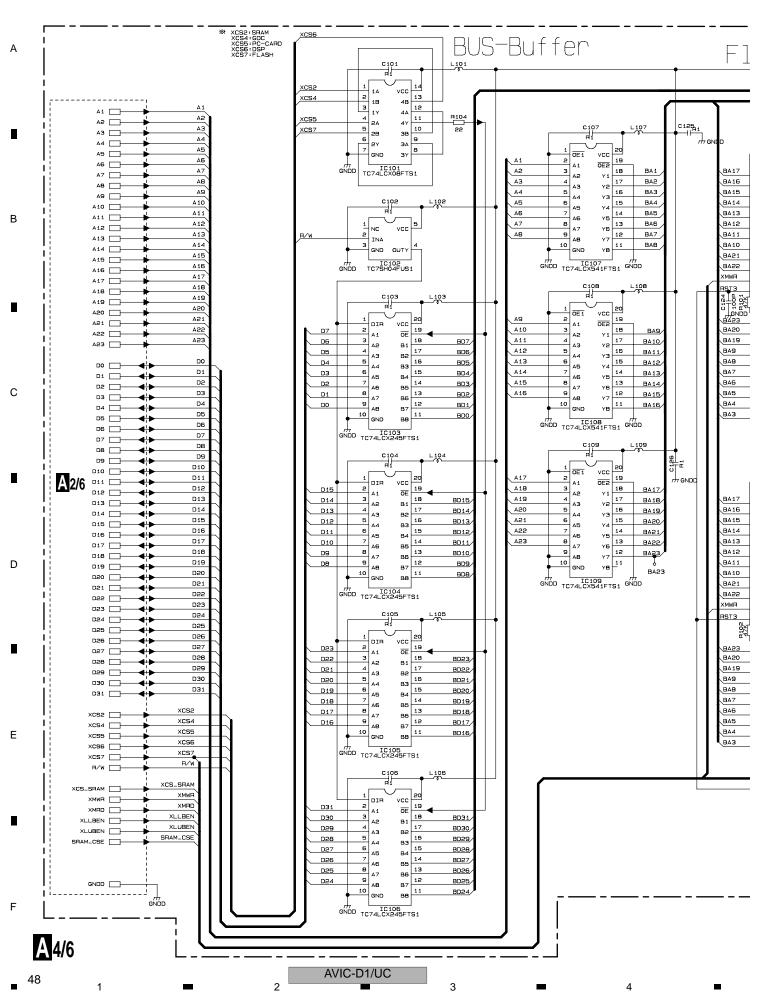
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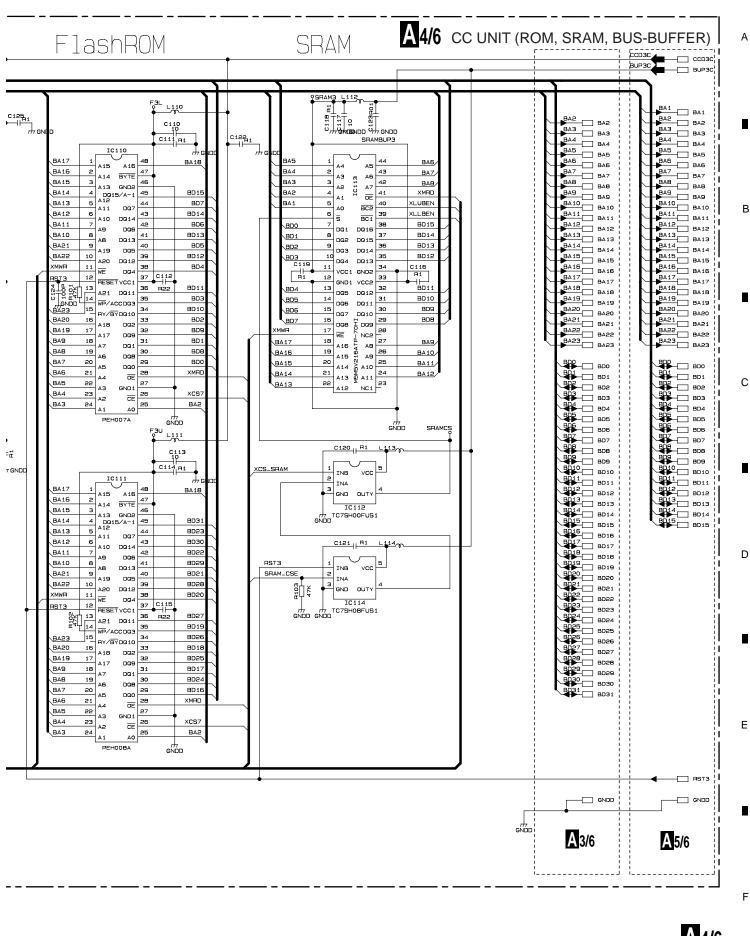
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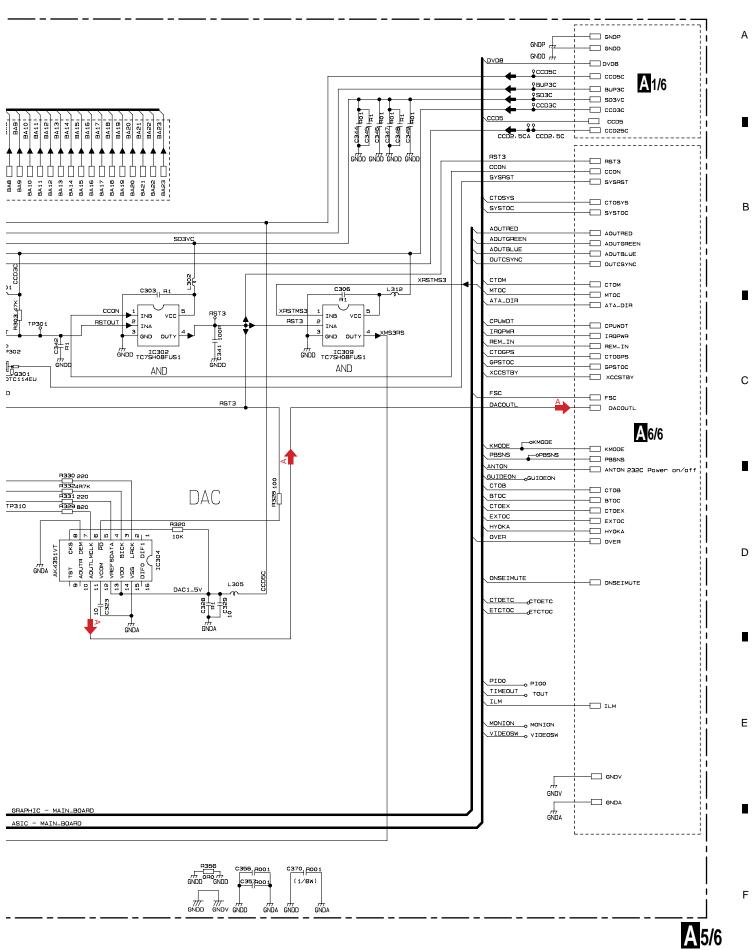




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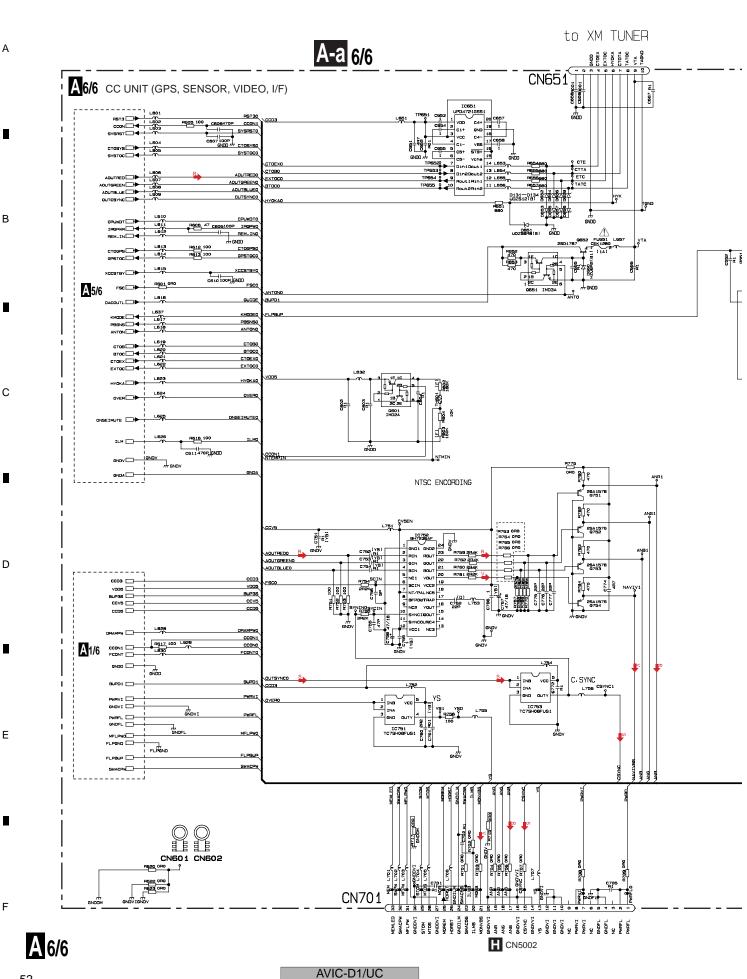
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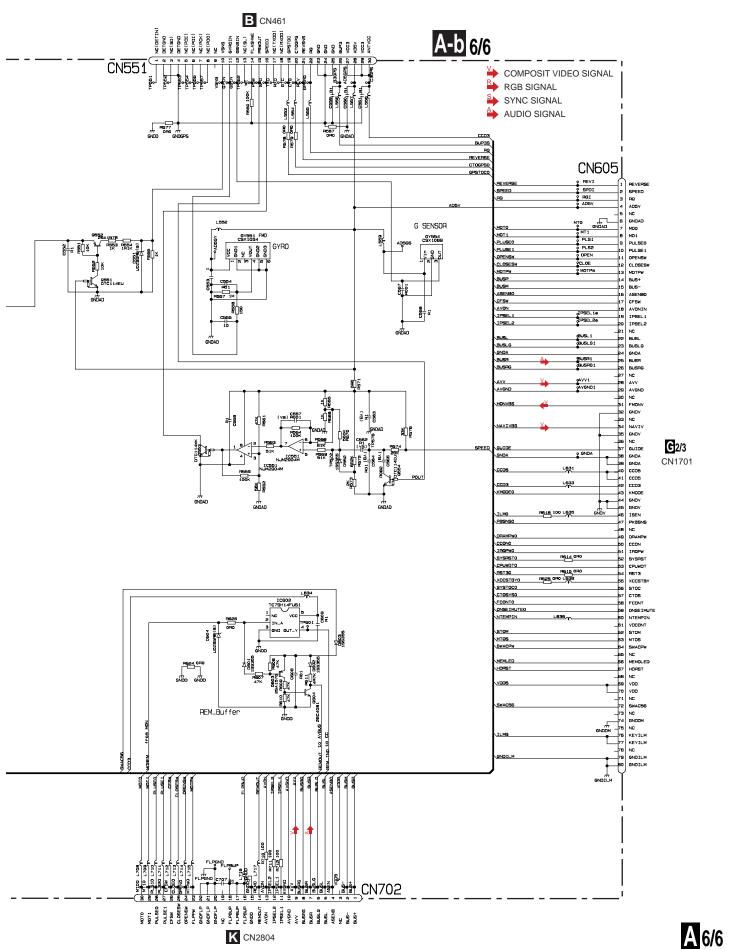
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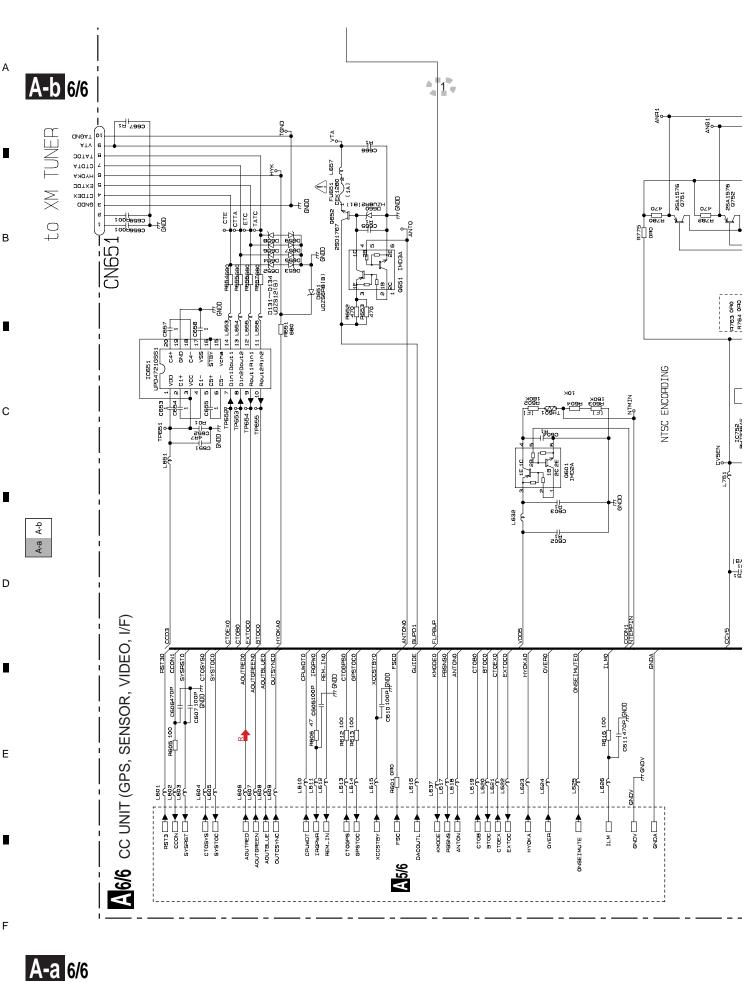
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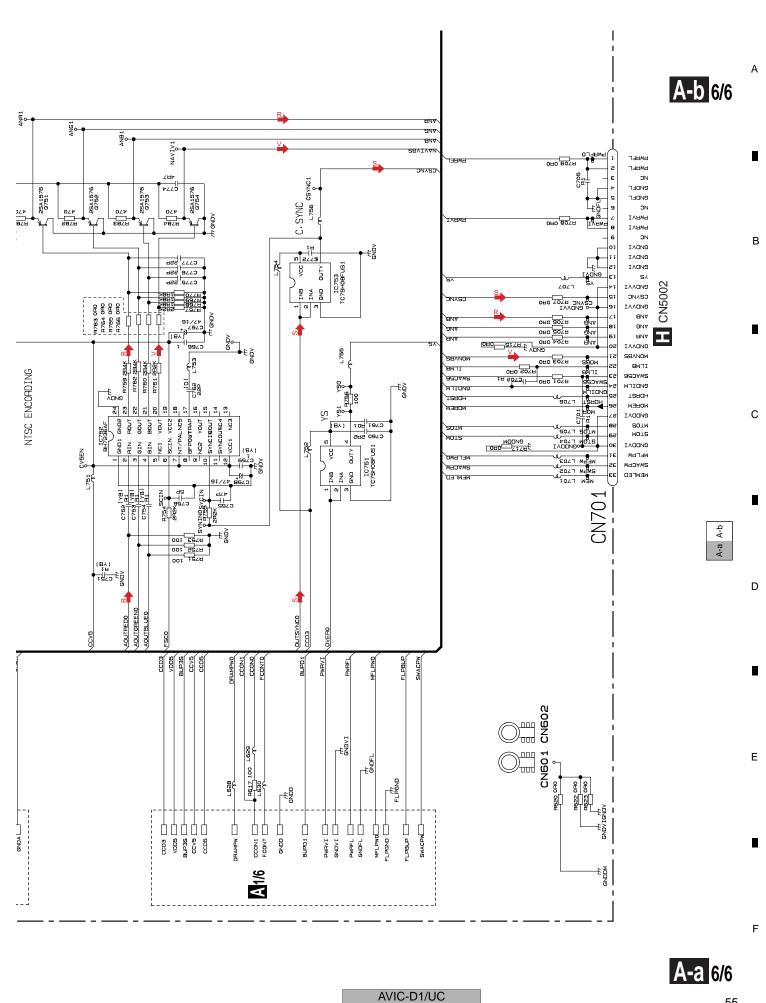
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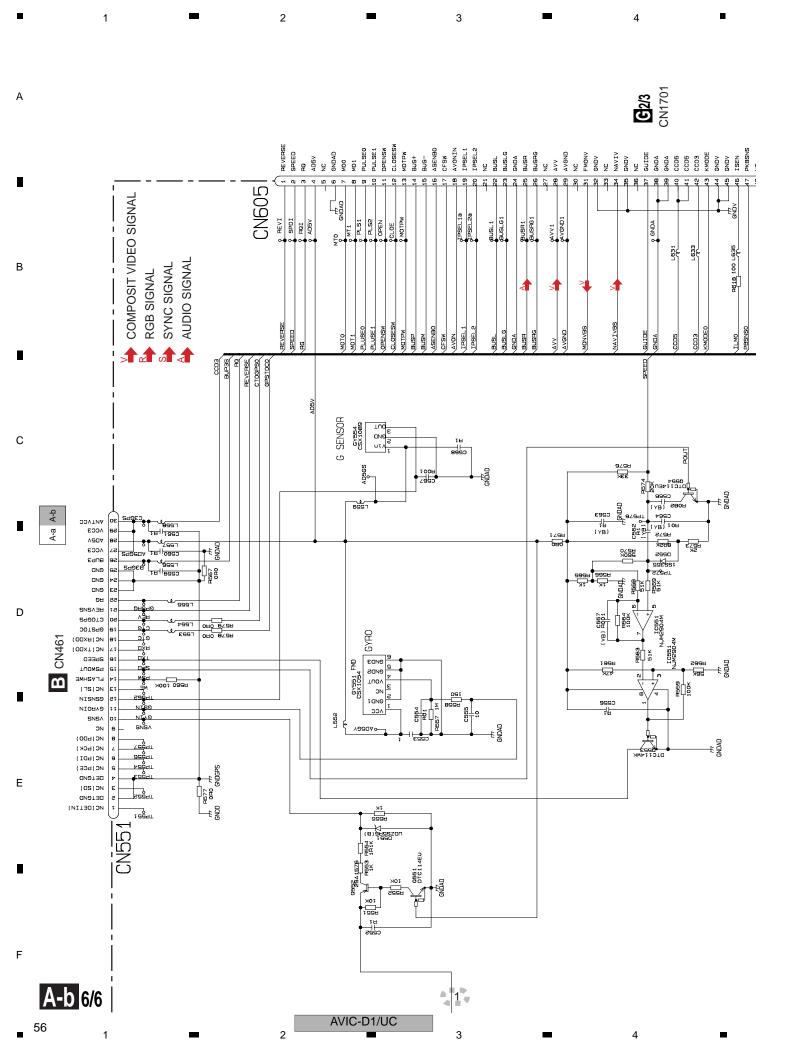
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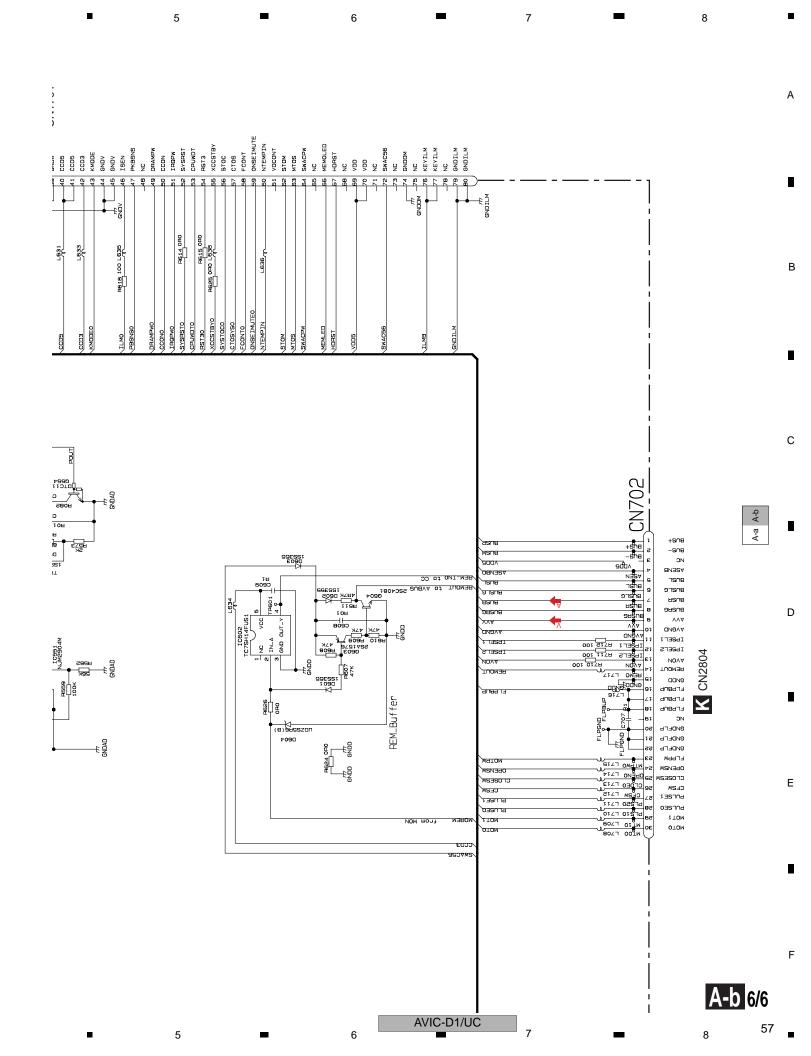
— 8

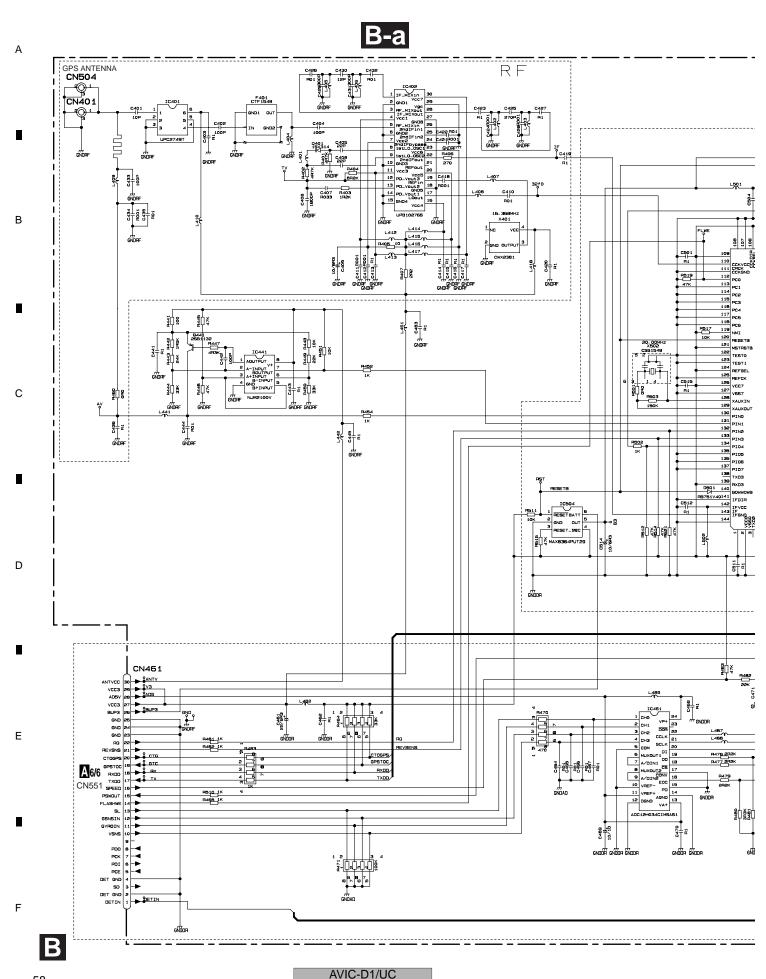


AVIC-D1/UC









B-b **B** GPS UNIT X501 80 X501 80 CSS1319 32.766 KHZ DE 133 DE 144 DE 143 DE 143 DE 143 DE 169 DE D[7] | No. D[6] D[13 D[12] 8519 47K D[11 D[3]
D[10]
D[2]
D[9] A[1] E JA A[4] AI5 D[8] A[6] A[7] A[8] D[0] 0515 -|-R1 36 C516 A[9] A[10] A[11] A[12] A[13] A[14] GNDDR 8 IC503 A[6] A[7] A[8] A[5] A[4] A[3] Al 15 Al 16 AI21 A[17] A[18] D[1] D[1] D[2] D[15] C512 P1 IEIG Dl 12 C517 Ri D[4] D[5] D[6] D[7] D[11 D[10 D[9] A[17] A[9] D A[16] A[15] A[14] A[13] **\$**‡ **₽**† AXDD GPSTOC CTOGPS 副菜 R534.40K Ε SCLK ADI R478 2R2 ADO R479 2R2K = # GNDDH JA GNOOR В AVIC-D1/UC 59 5

6

7

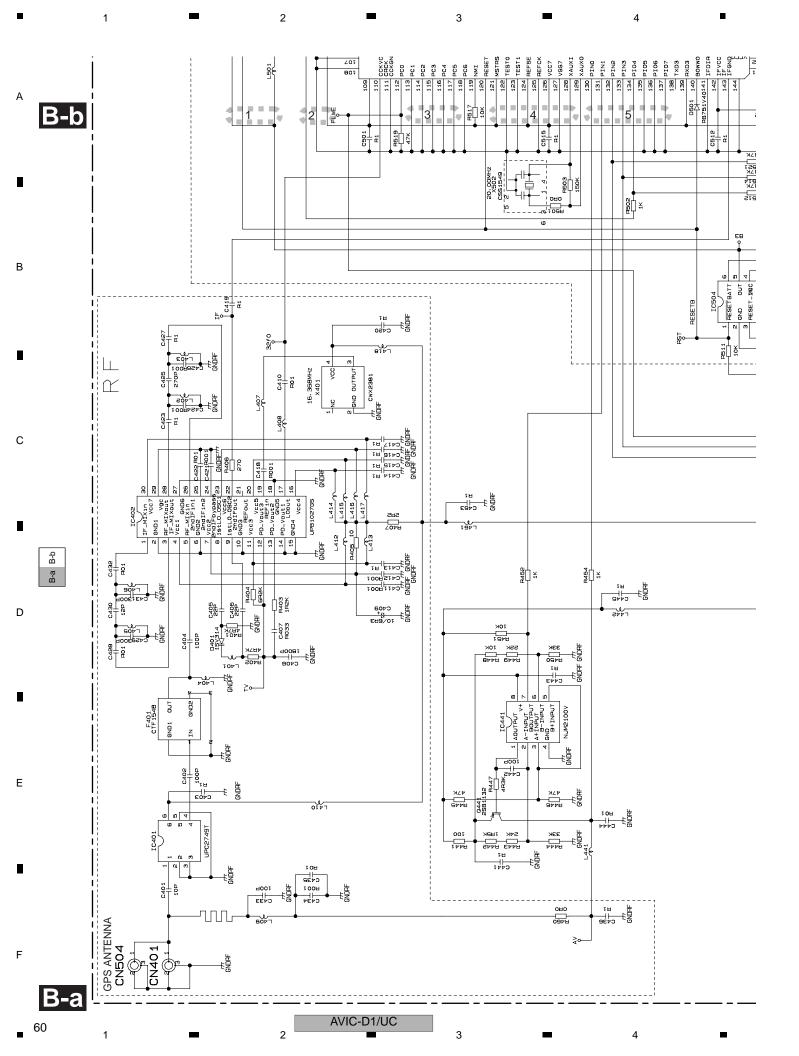
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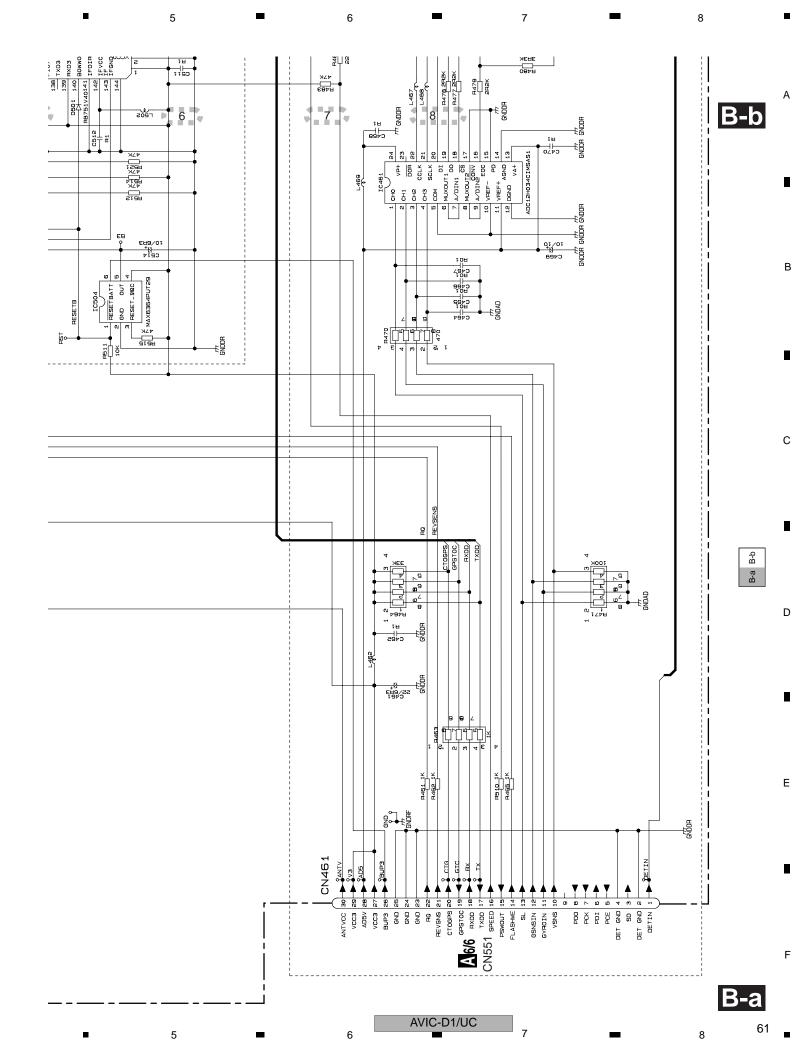
В

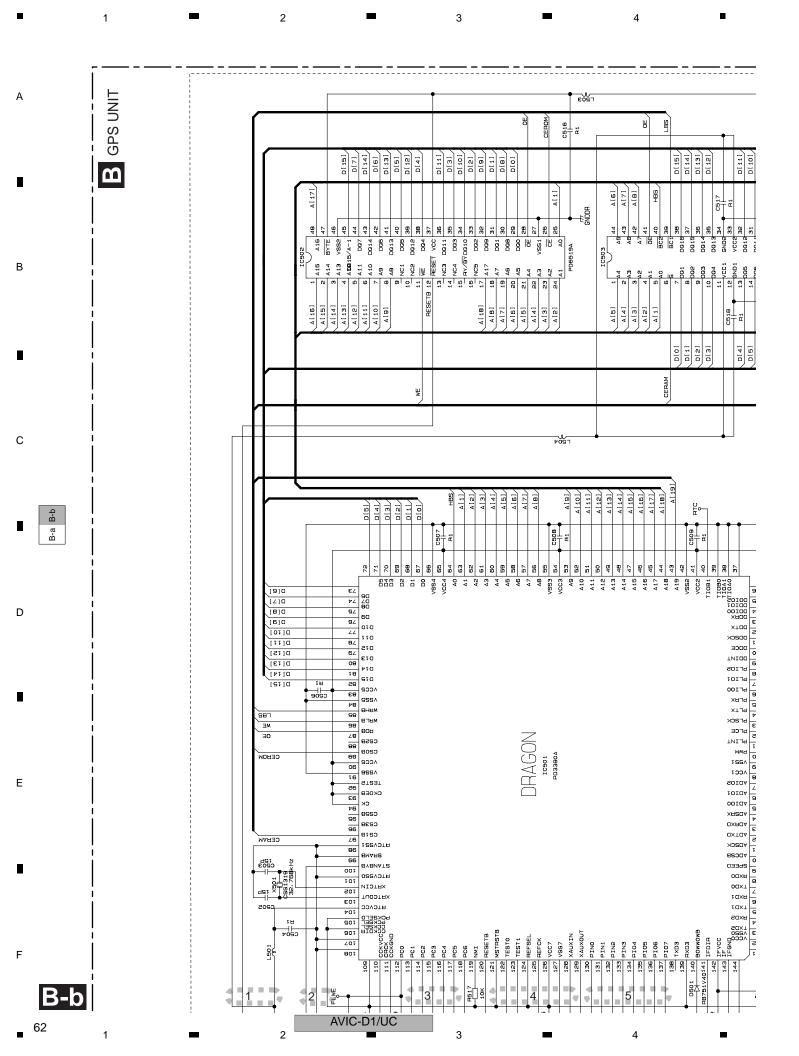
С

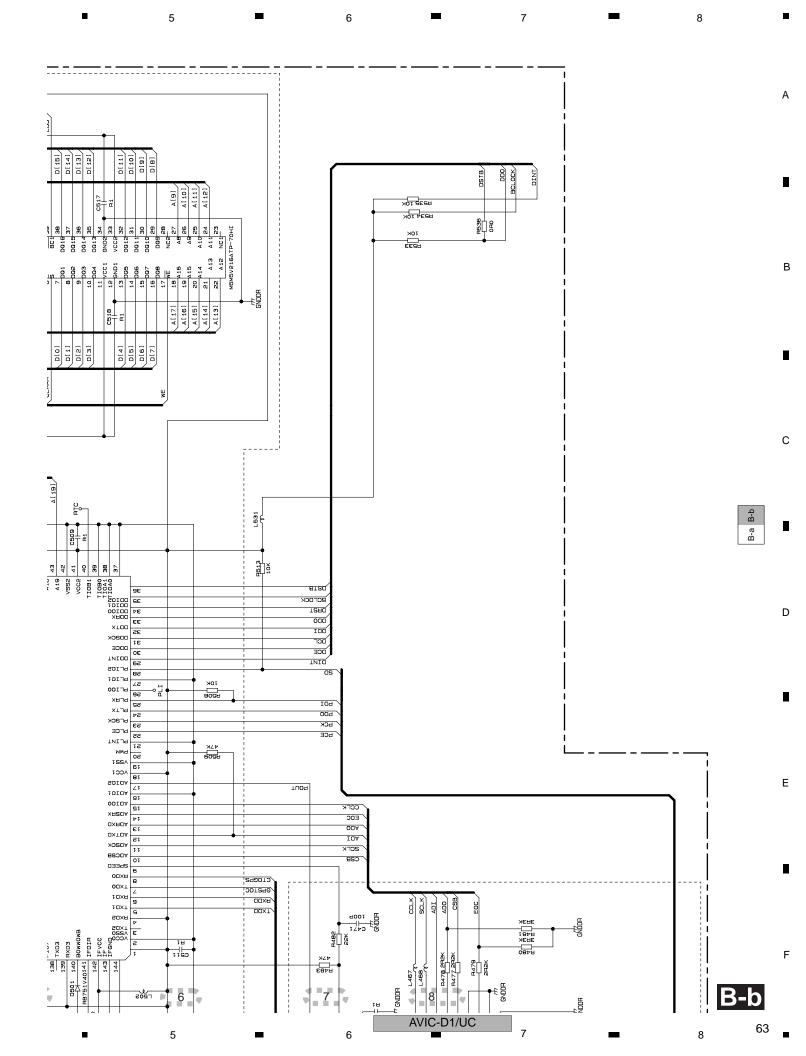
F

8

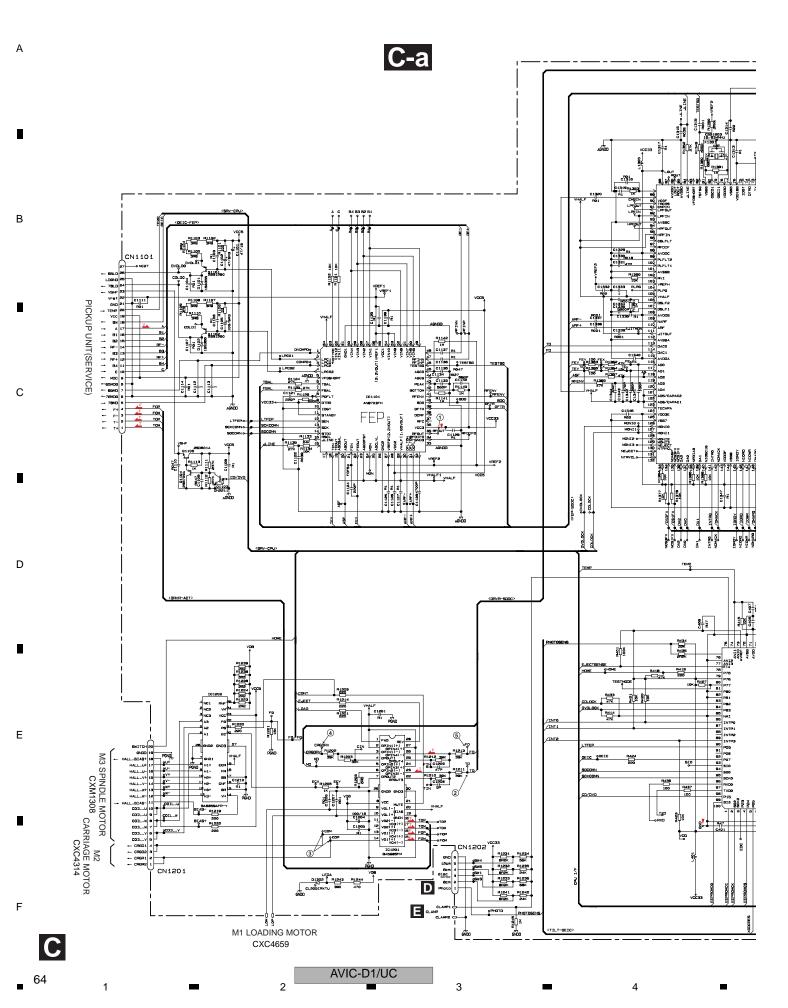


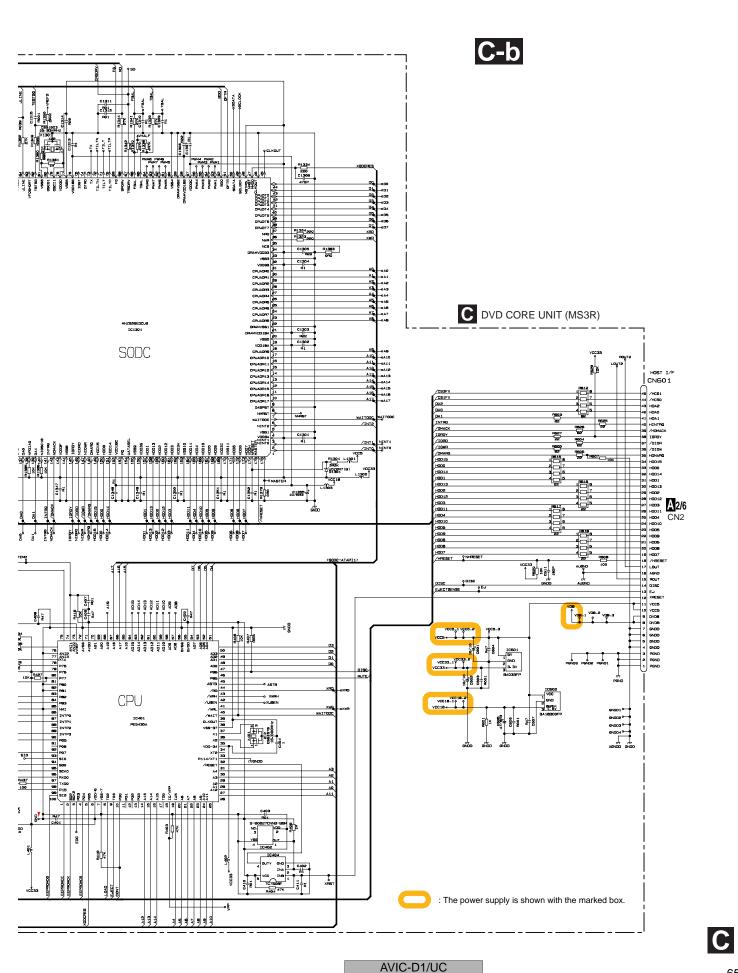






3.10 DVD CORE UNIT(MS3R)(GUIDE PAGE)





5

5

65

8

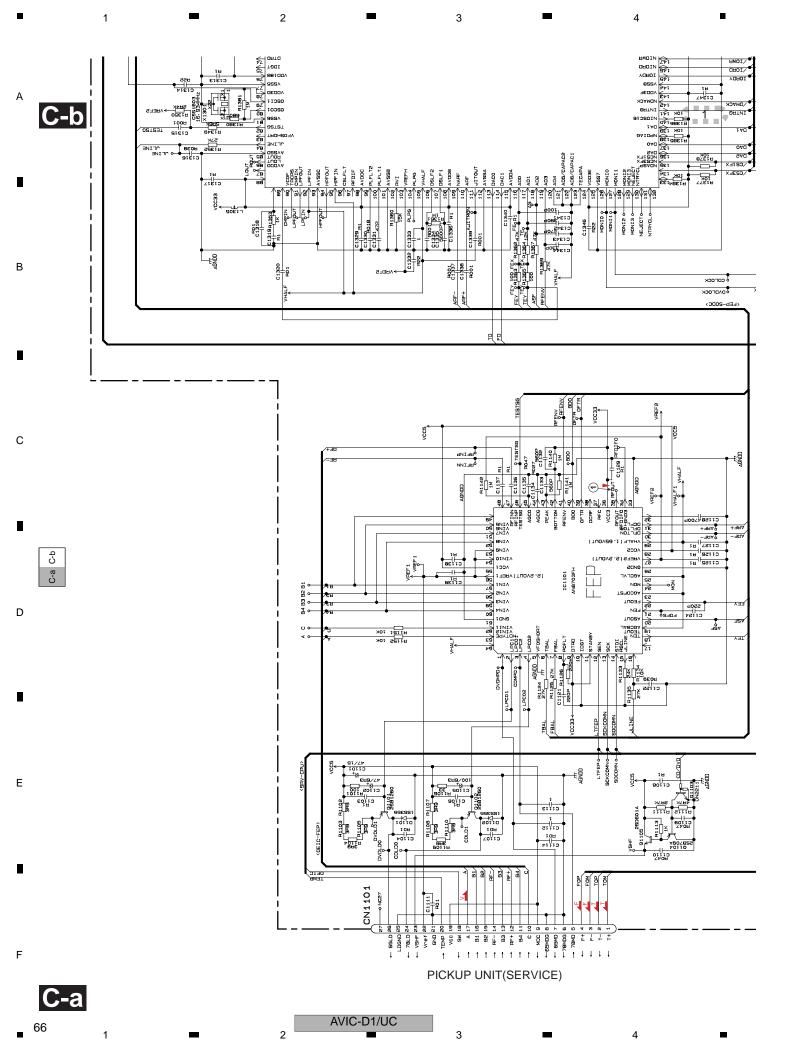
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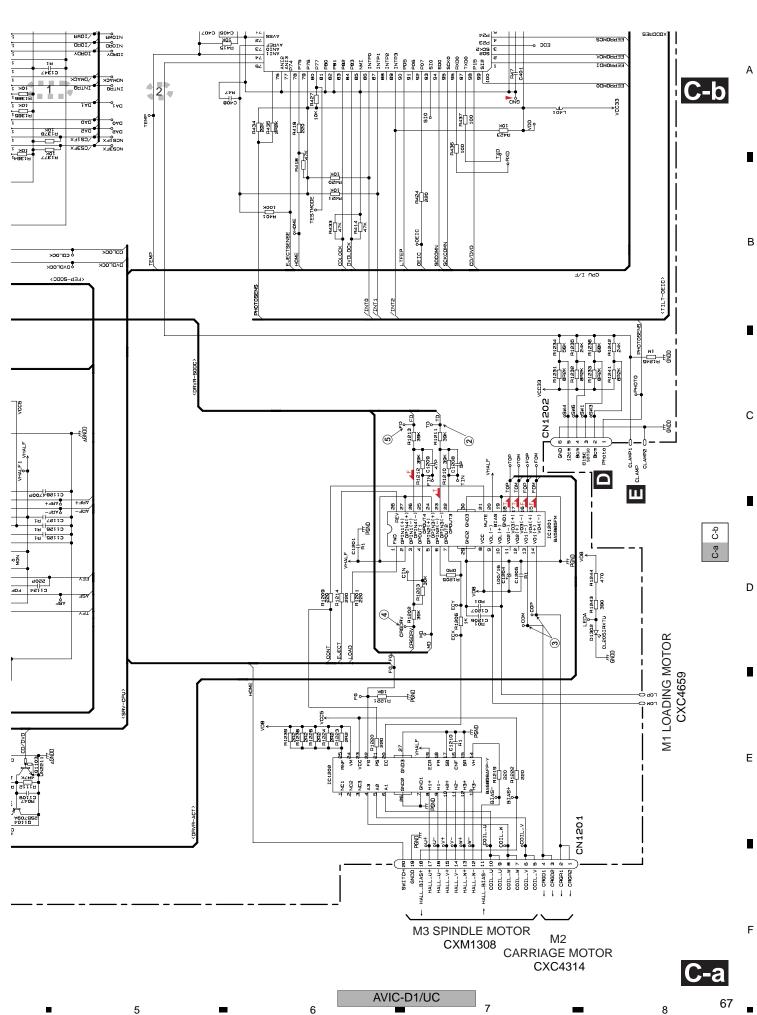
С

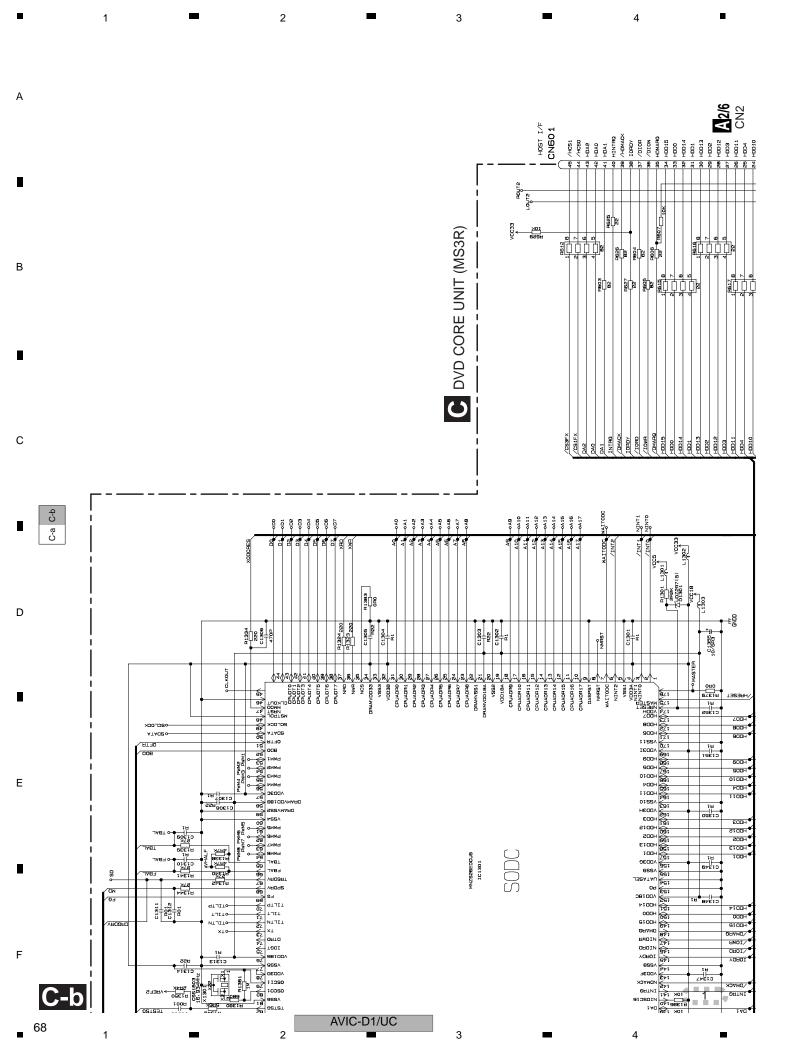
D

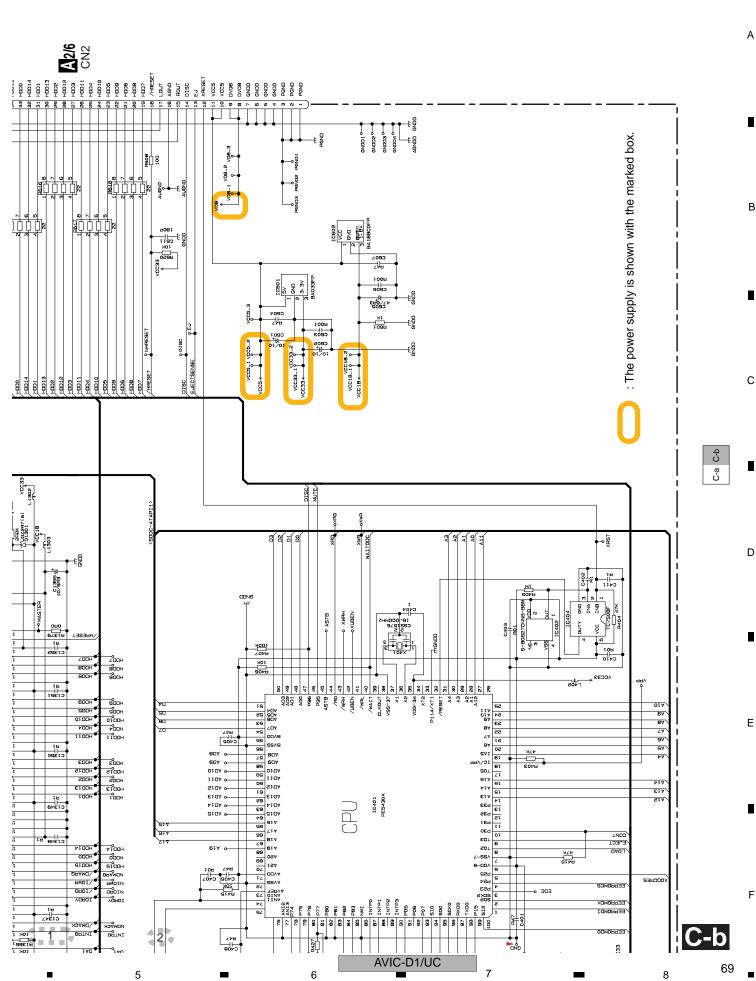
Ε

F









В

D

Ε

Waveforms

Α

Note:1. The encircled number denote measuring pointes in the circuit diagram.

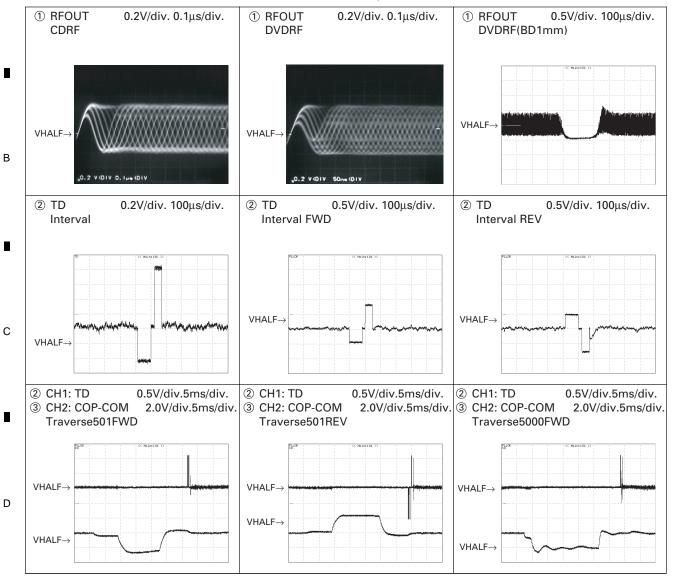
2. Reference voltage VHALF: 1.65V(TD1,FD1,CRGDRV)

2

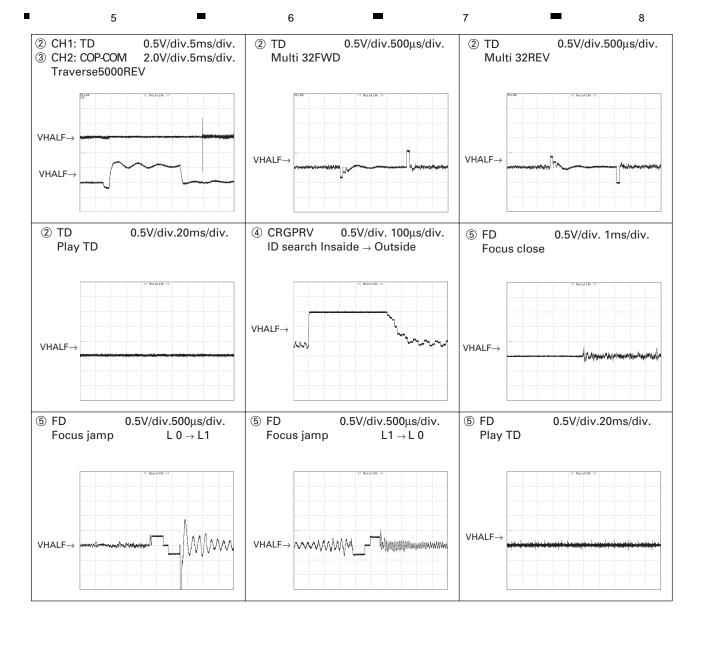
: 2V Center(ANAMONI1)

3

In this waveform, it is seeing on the GND standard. Offset of 1.65V or 2V is put in.



Ε



AVIC-D1/UC

5

= 8

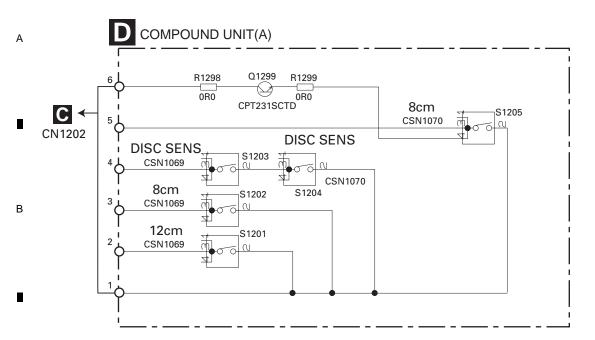
В

С

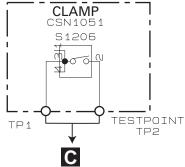
D

Ε

3.11 COMPOUND UNIT(A) AND COMPOUND UNIT(B)







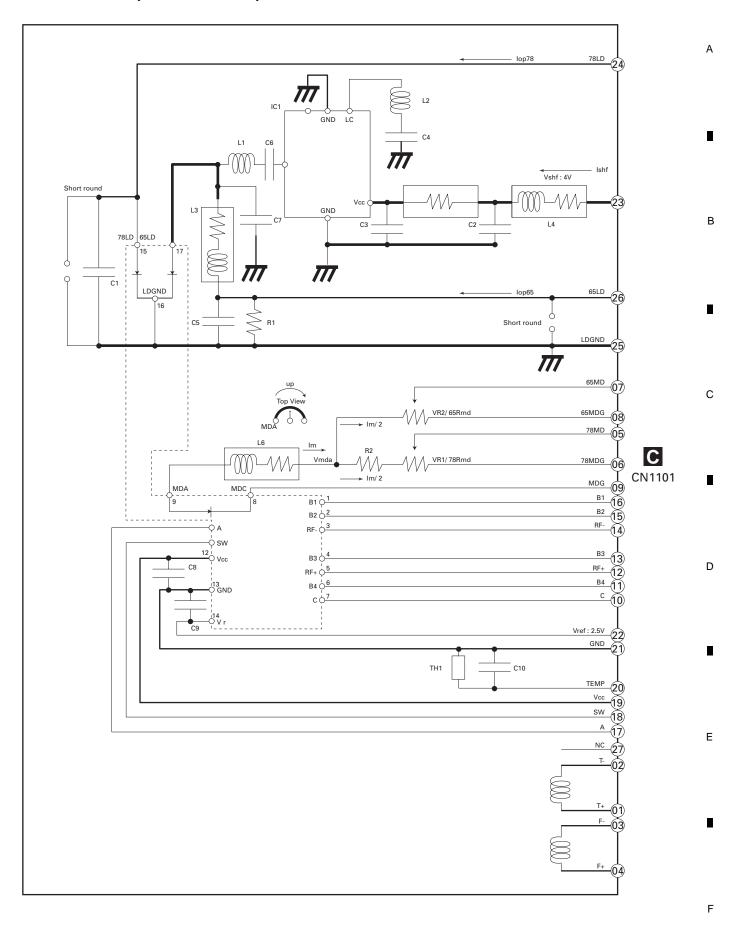
DE

Ε

AVIC-D1/UC

3.12 PU UNIT(REFERENCE)

5

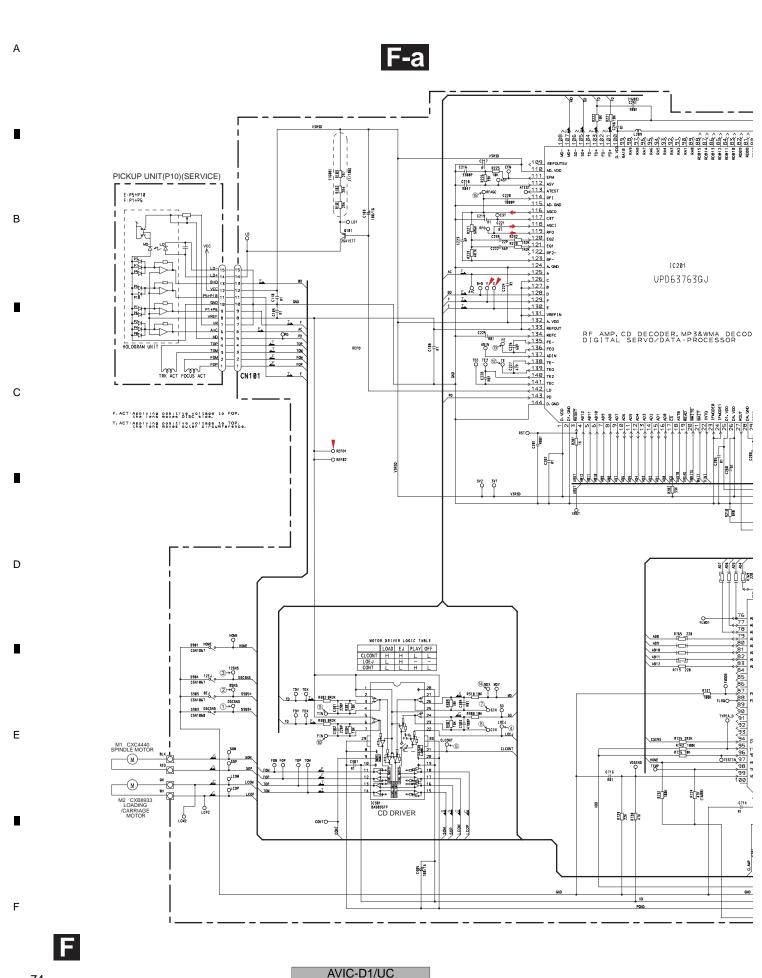


AVIC-D1/UC

73

8

■ 7 **■**



NOTE1) GND ...CD LSI.RFAMP.CPU
PGND ...Actuator.Motor Driver
AGND ...Actuator.Motor Driver
AGND ...Audio ...Aud Monitor land(ø1.2mm) #:Monitor land(#0.8mm)

[] Land for manual soldering SWITCHES:
CD CORE UNIT(S10.1)
S901:HOME SWITCH......ON-OFF
S903:DSCSNS SWITCH.....ON-OFF
S904:12£J SWITCH......ON-OFF
S905:BEJ SWITCH......ON-OFF The underlined indicates the switch position SIGNAL LINE
FOCUS SERVO LINE TACKING SERVO LINE
CARRIAGE SERVO LINE O100 1763GJ SPINDLE SERVO LINE C257 P F CD CORE UNIT(S10.1) DOUT O MP3&WMA DECODER 3.3V REGULATOR SND 2 R243 \$T= C283 Pt V3R3D 20E (688) (1688) 25 TERRIT . ₽∯ 6 8 8777 228 XASTB 6 7 8778 228 XASTB 6 6 7 8778 228 XBEAD 6 6 5 8778 228811E 6 4 7 2288 11 MAIL 11 MAI CLCONT LOEJ ROMCK ROMCK 76 ADS 77 ADS 78 5 228 MICRO COMPUTER VDZ O IC701 **G**2/3 EMPH EMPH CS (1688) 3V REGULATOR SRAMLEVEL1
SRAMLEVEL0
EVDD
EVSS
12EJ
BEJ
DSCSNS CN901 CN1301 PE5454B C785 BRXEN | P981 228 計-2 68 X N BRS1 BRS0 BRS0 FTxD 颠纜 R746 188 VID 2 FLMD8 R716 4R7K X781 4.88M7 4.78M7 4.77 4.77 4.77 19 VDCON 28 GND 21 GND 22 PGND 23 PGND C722 4R7(2125) 989 計劃 1/0 F

AVIC-D1/UC

5

5

75

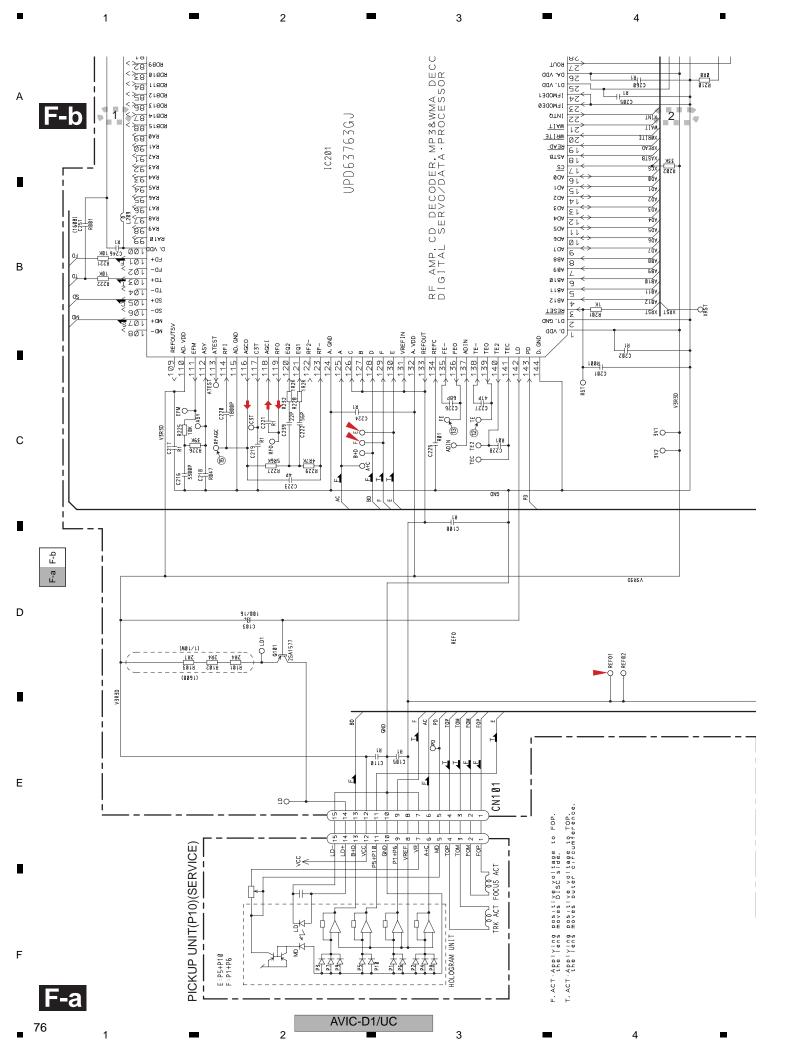
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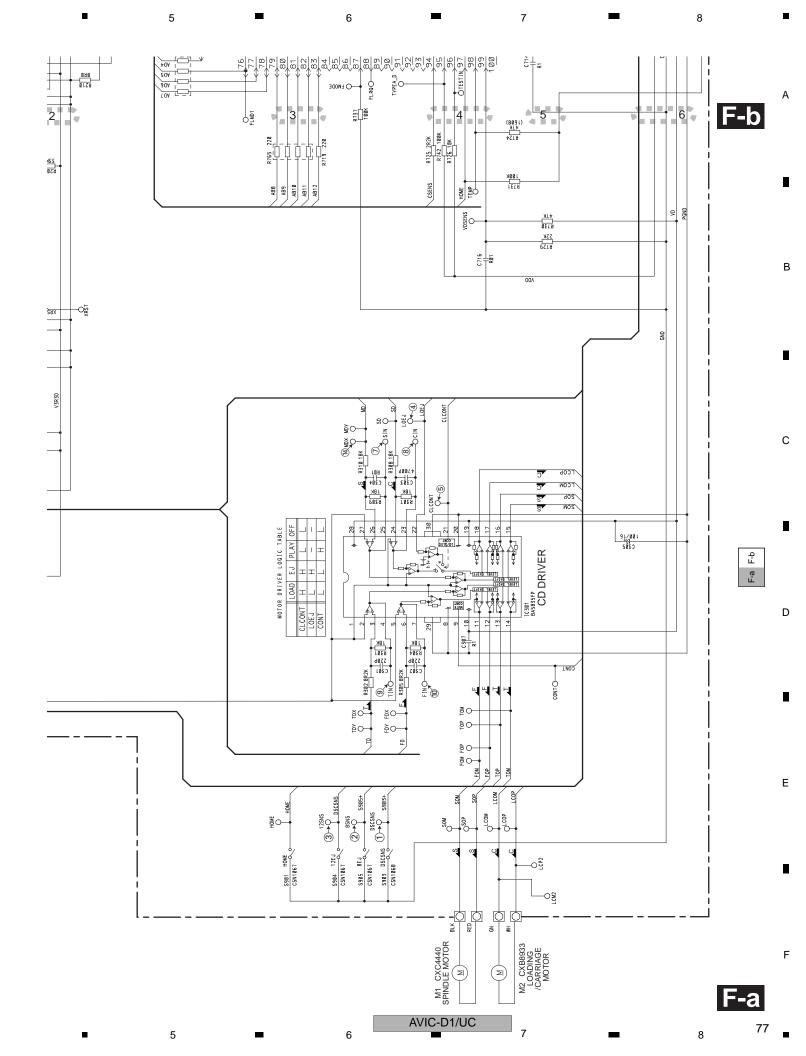
В

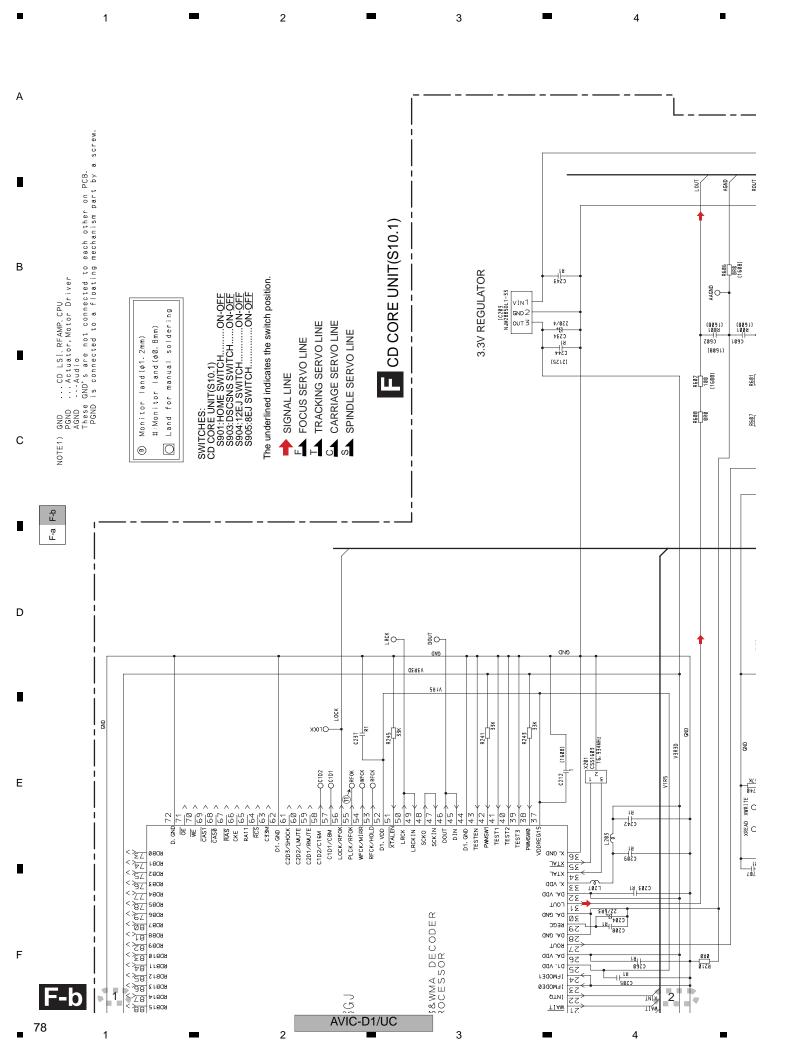
С

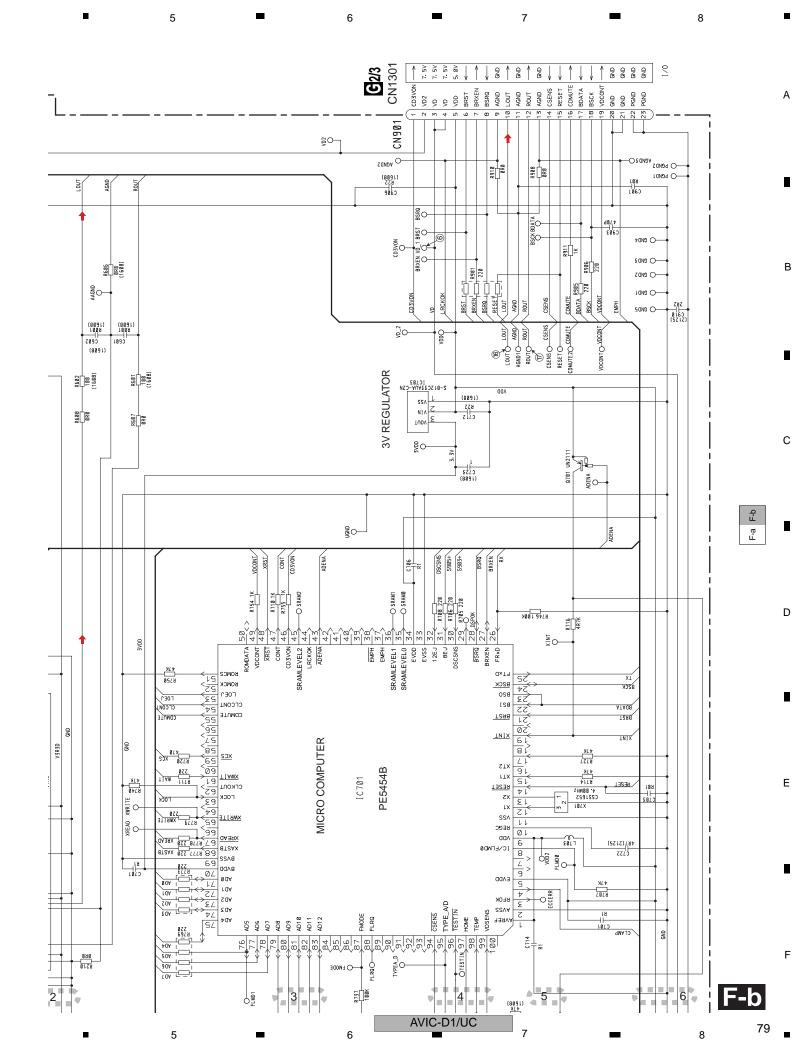
D

Ε









1 2 3 4

Waveforms

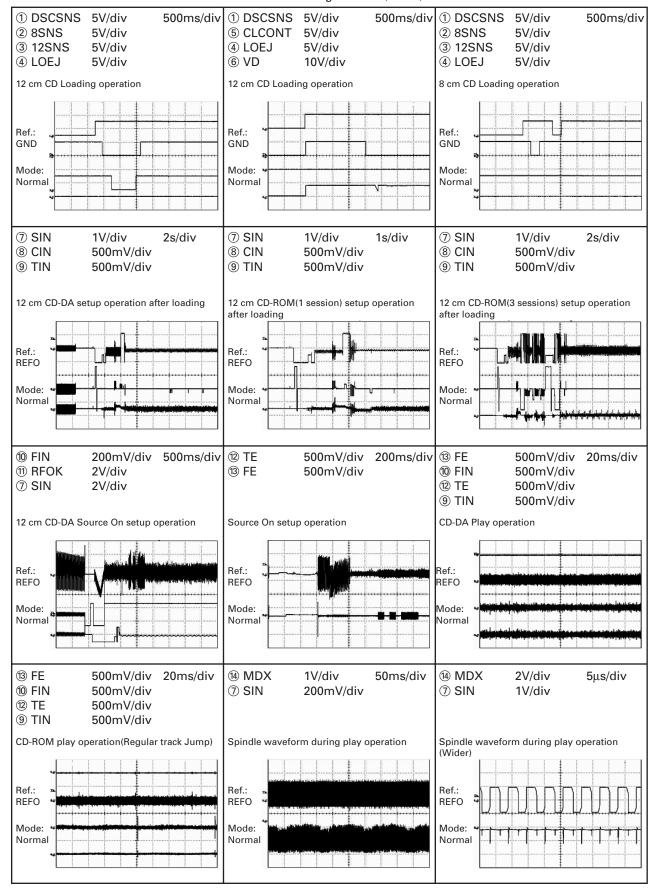
В

С

D

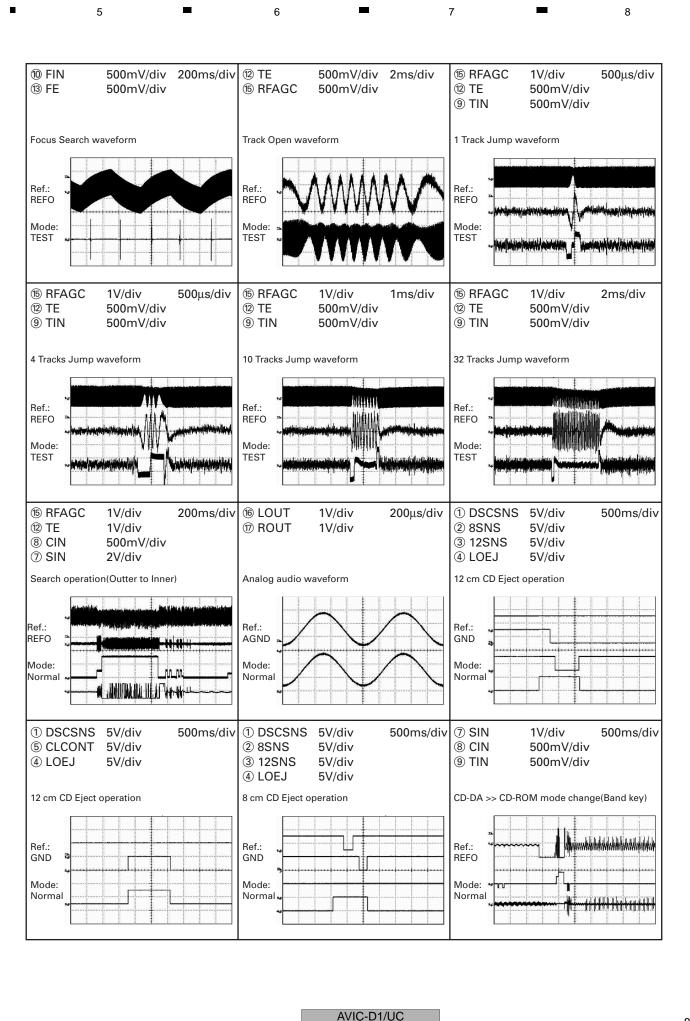
Ε

Note: 1. The encircled numbers denote measuring points in the circuit diagram.
2. Reference voltage REFO1(1.65V)



AVIC-D1/UC

1



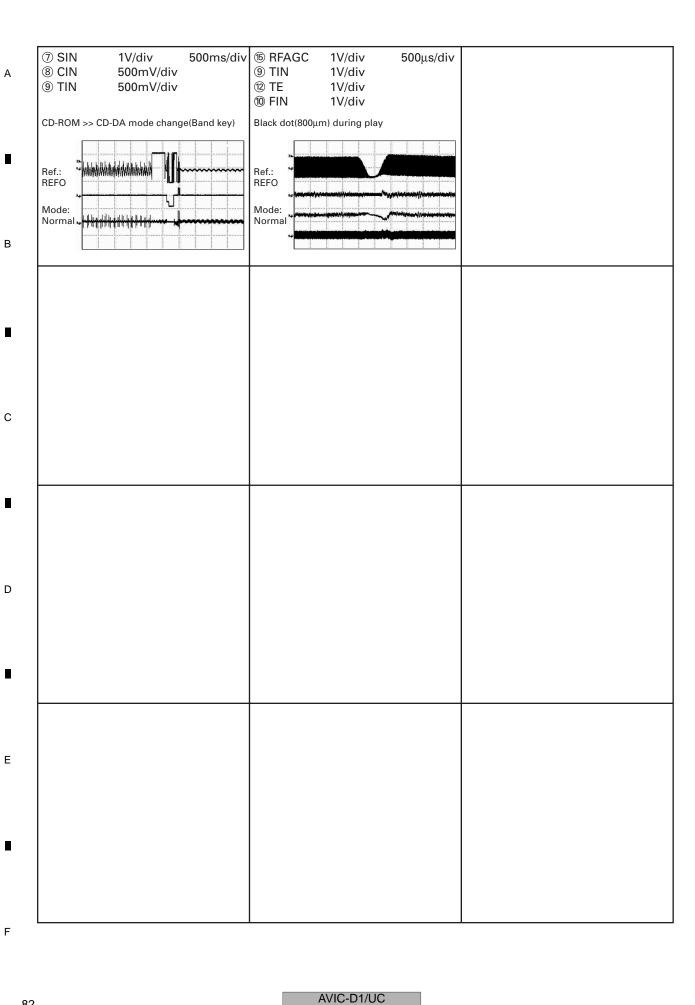
AVIC-D1/UC

81

В

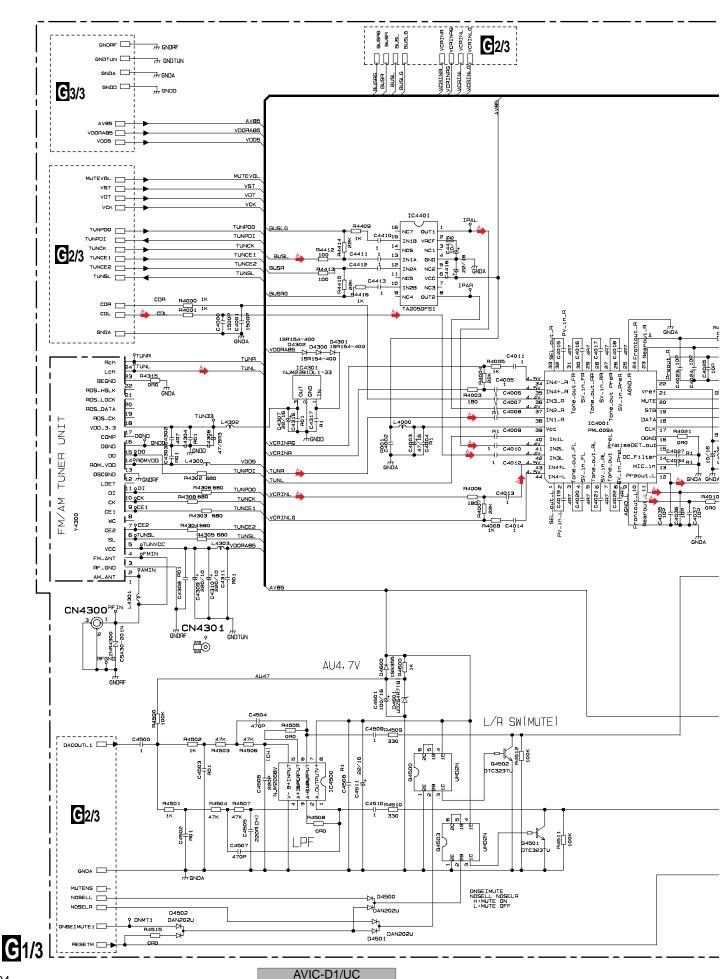
D

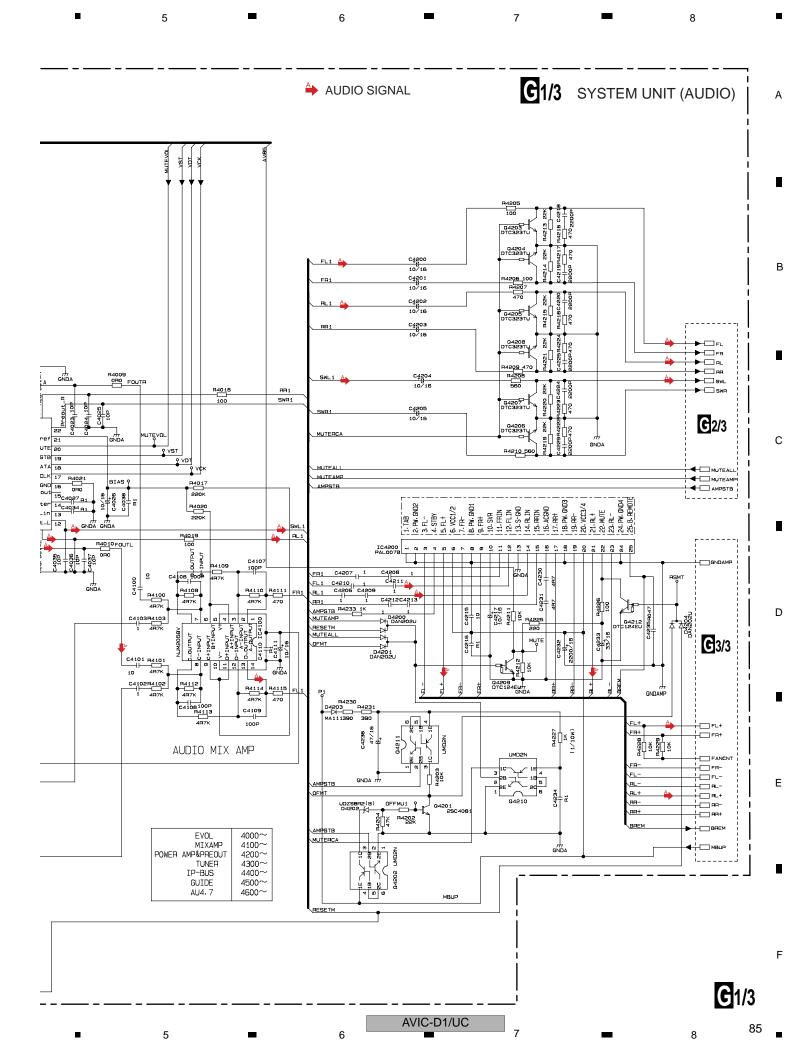
Е



1 = 2 = 3 = 4

5 В С Ε AVIC-D1/UC

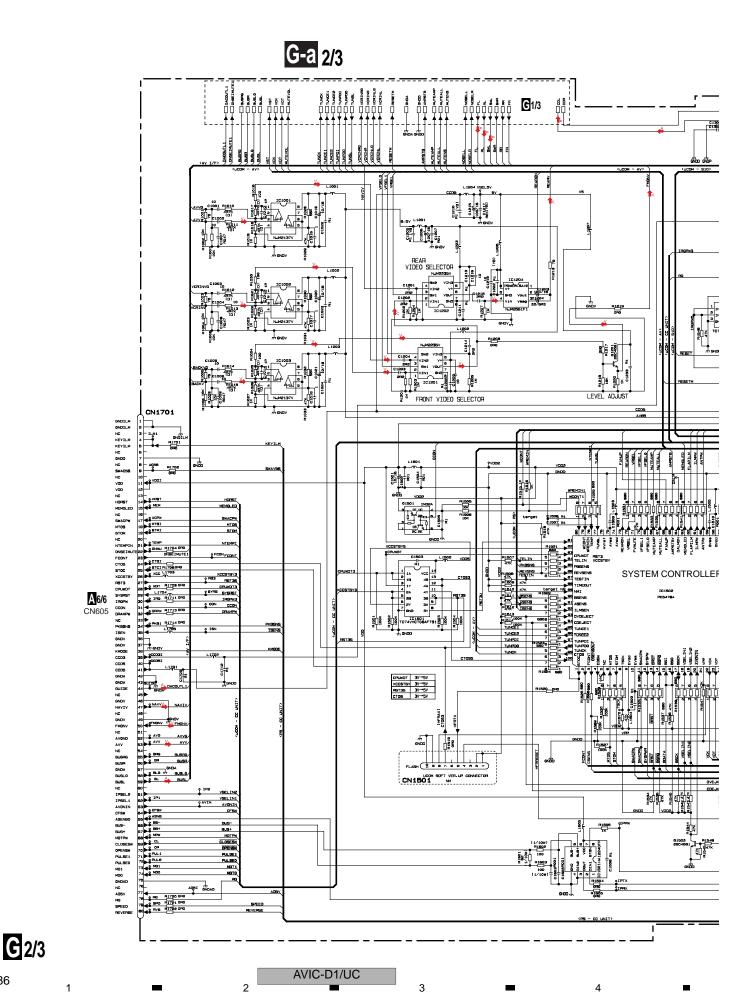


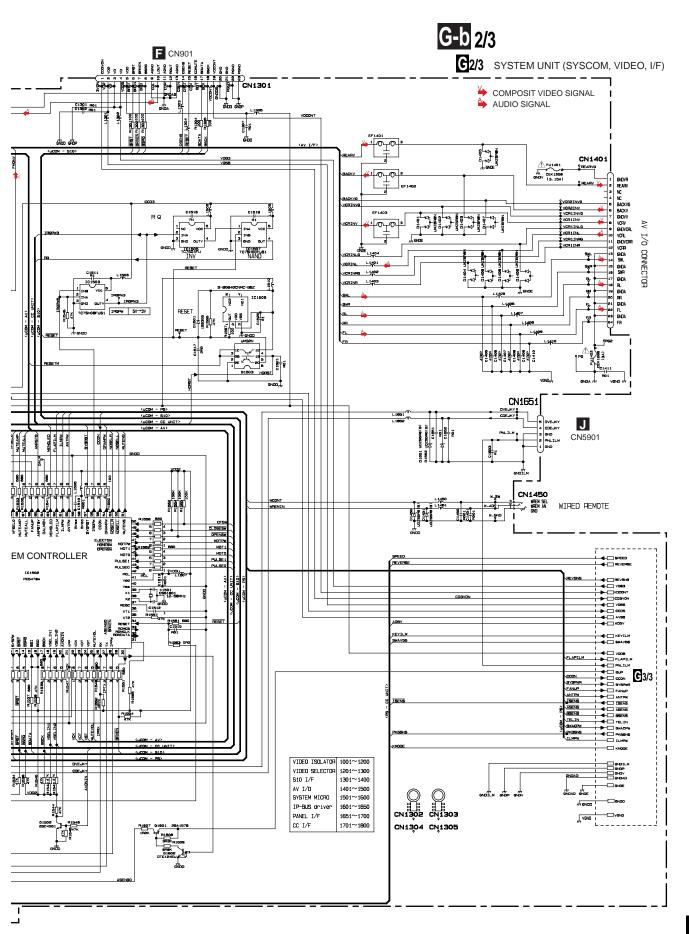


3.15 SYSTEM UNIT (SYSCOM, VIDEO, I/F)(GUIDE PAGE)

Α

Ε





5

G 2/3

8

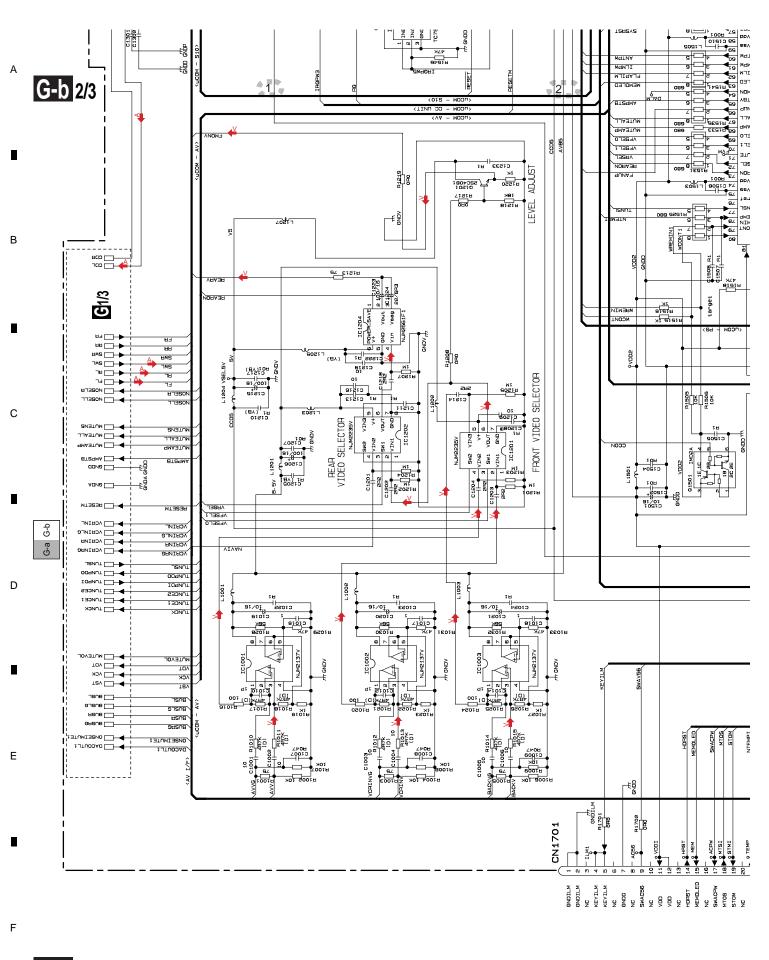
В

С

D

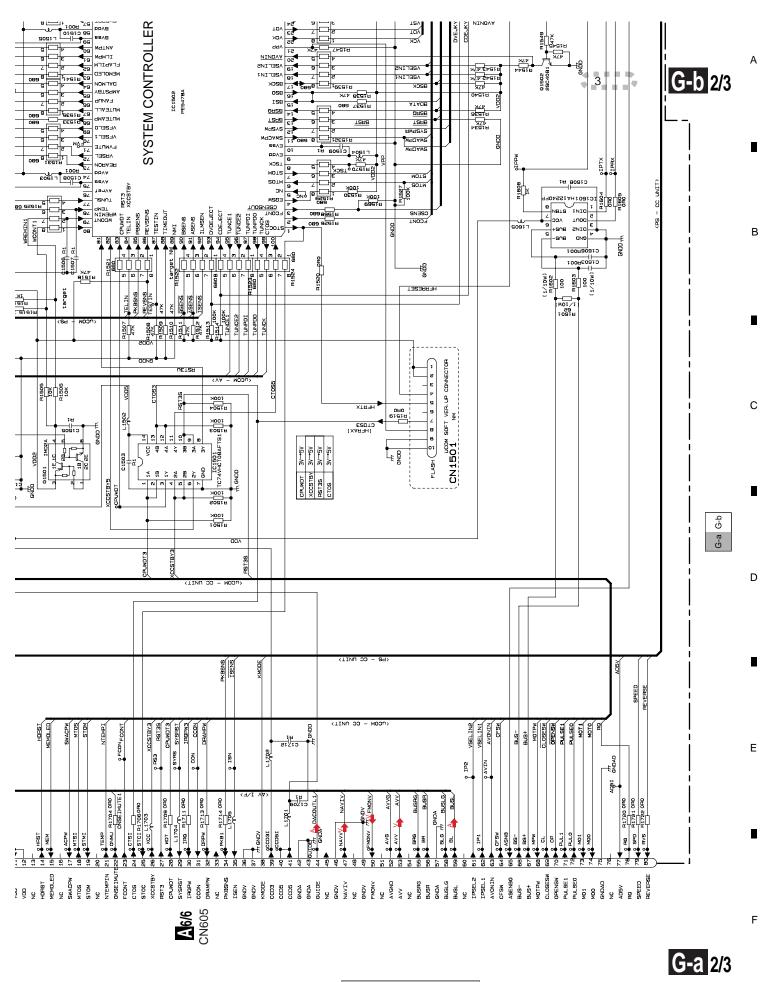
Ε

AVIC-D1/UC 7

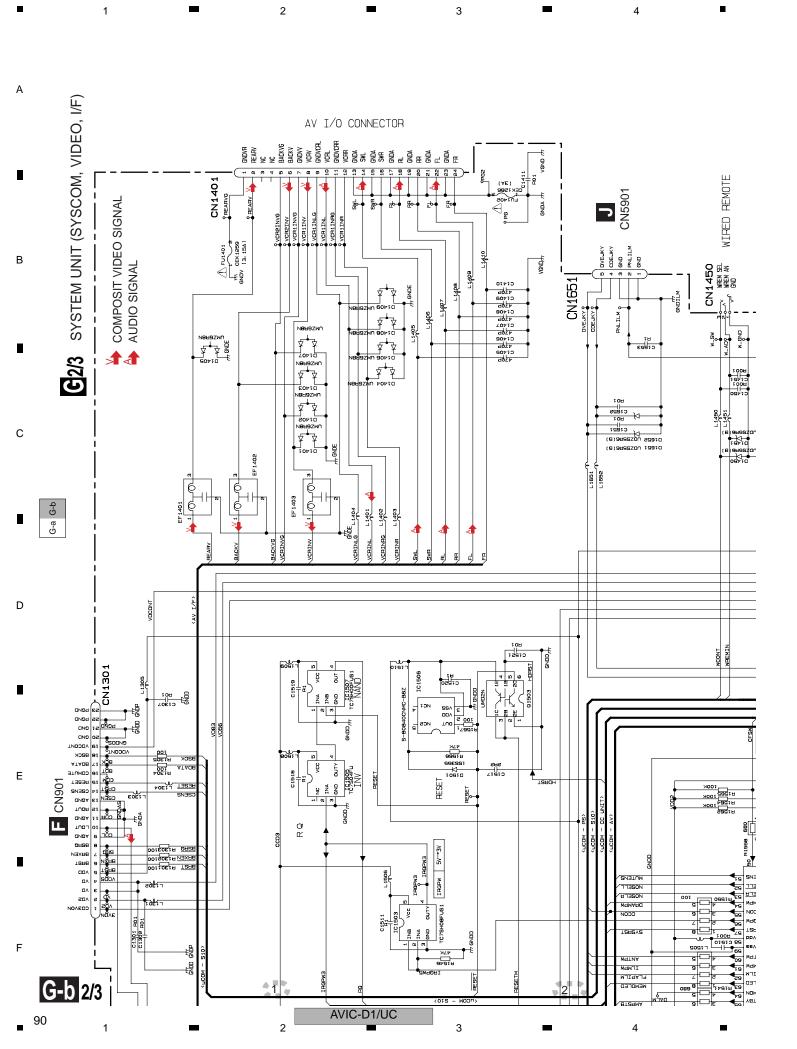


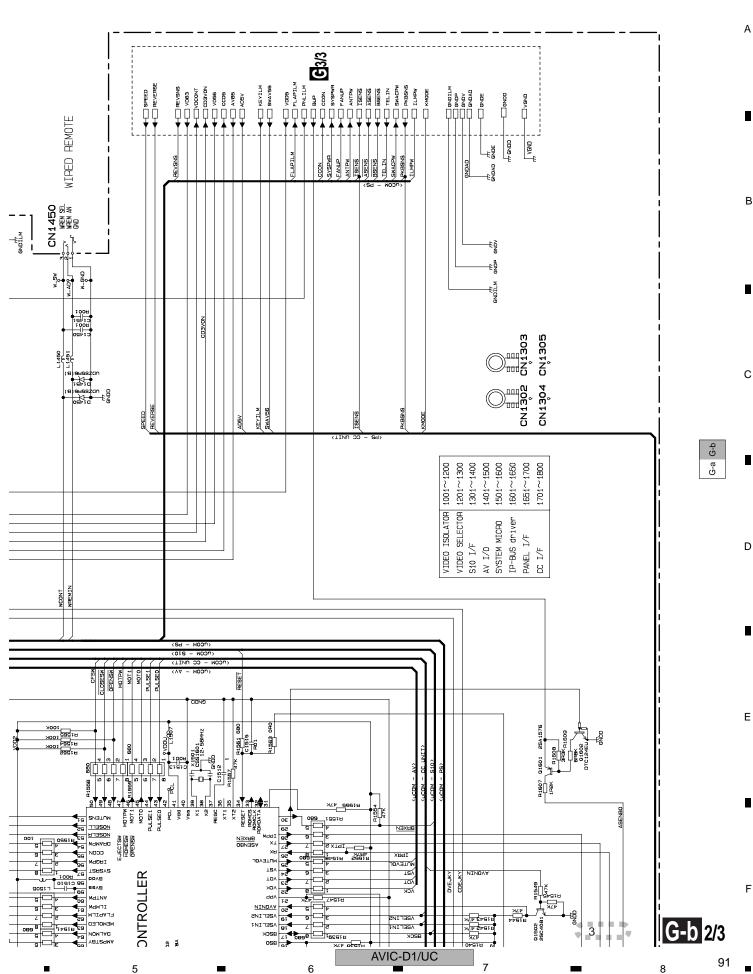
G-a 2/3

AVIC-D1/UC



AVIC-D1/UC





7

5

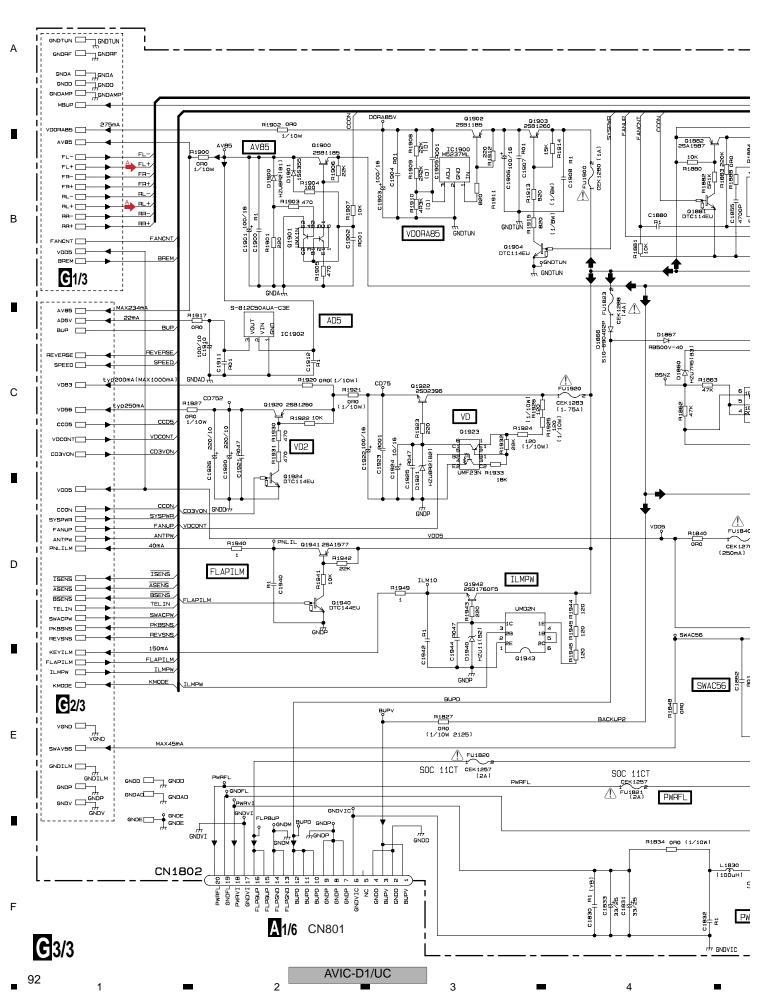
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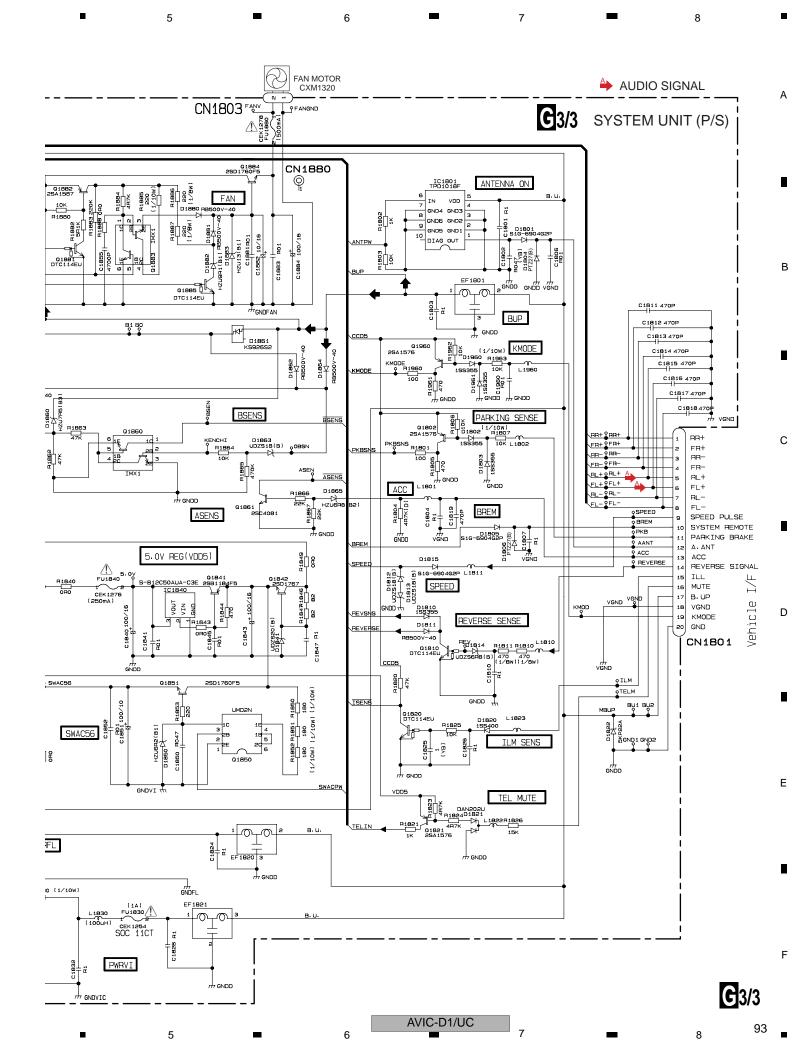
В

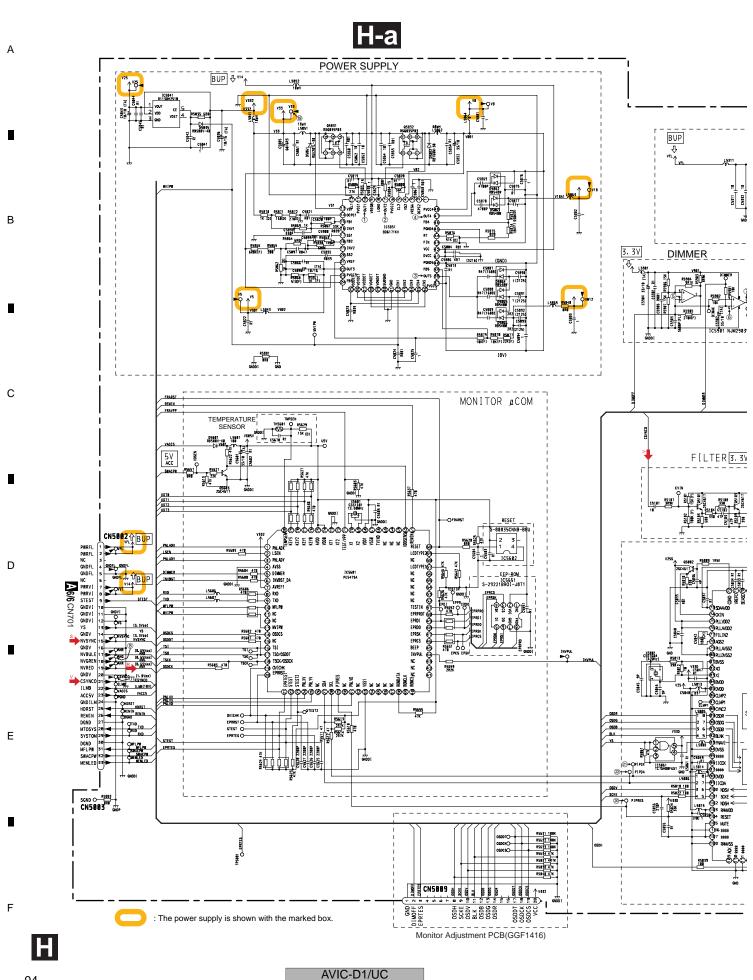
С

D

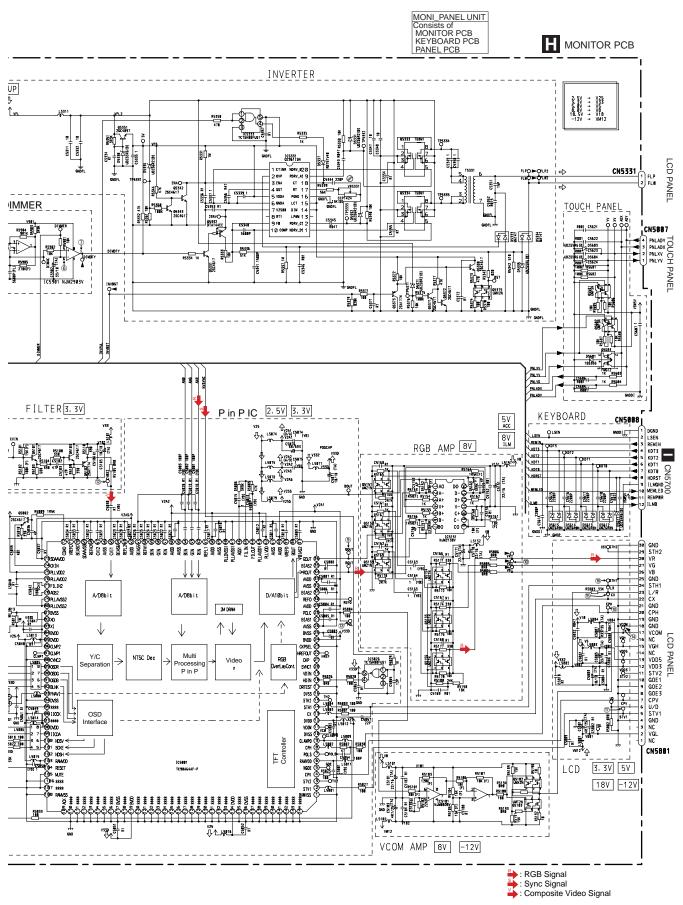
F







H-b



Н

7

AVIC-D1/UC

5

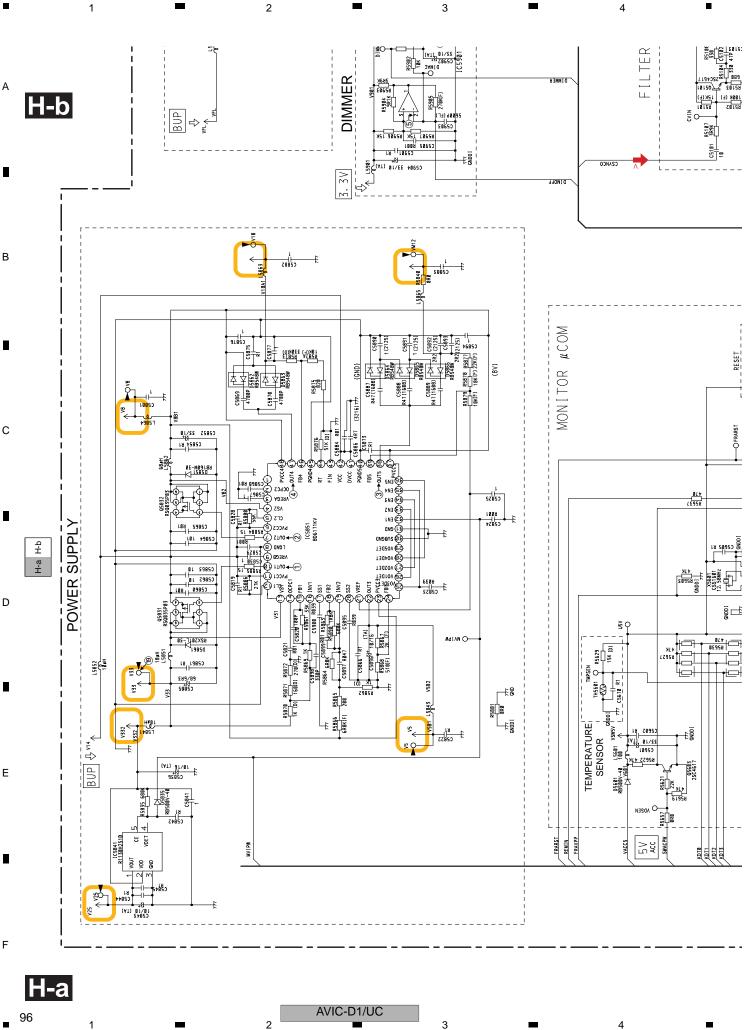
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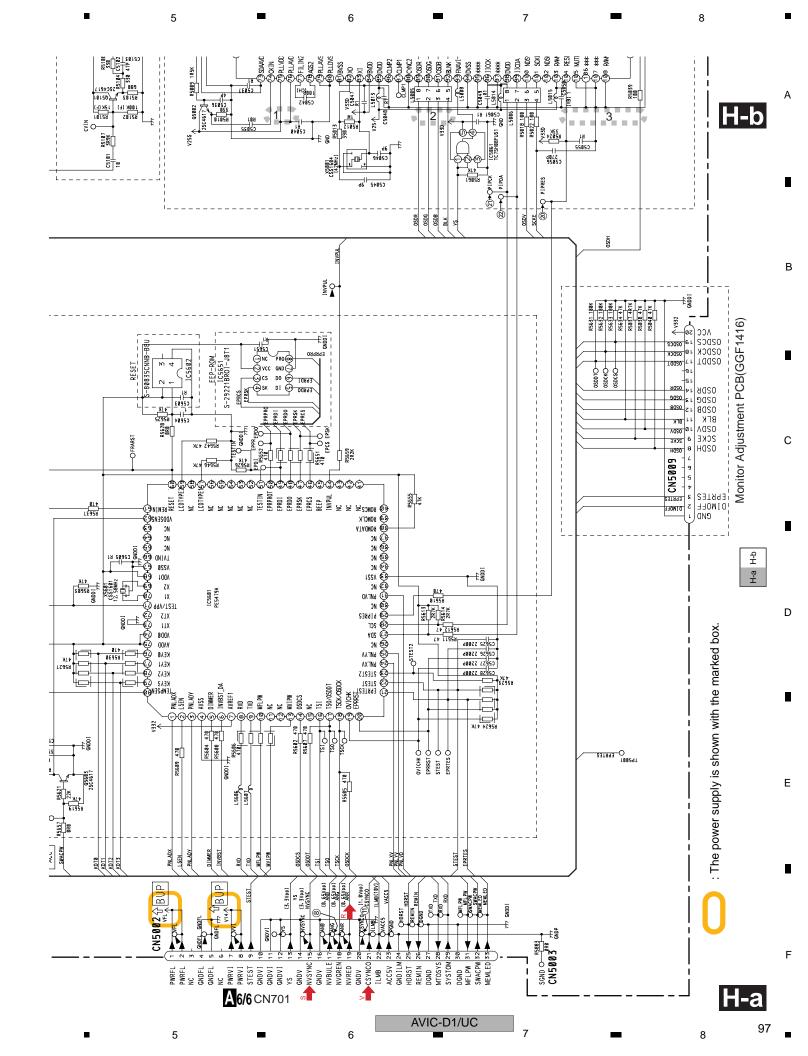
В

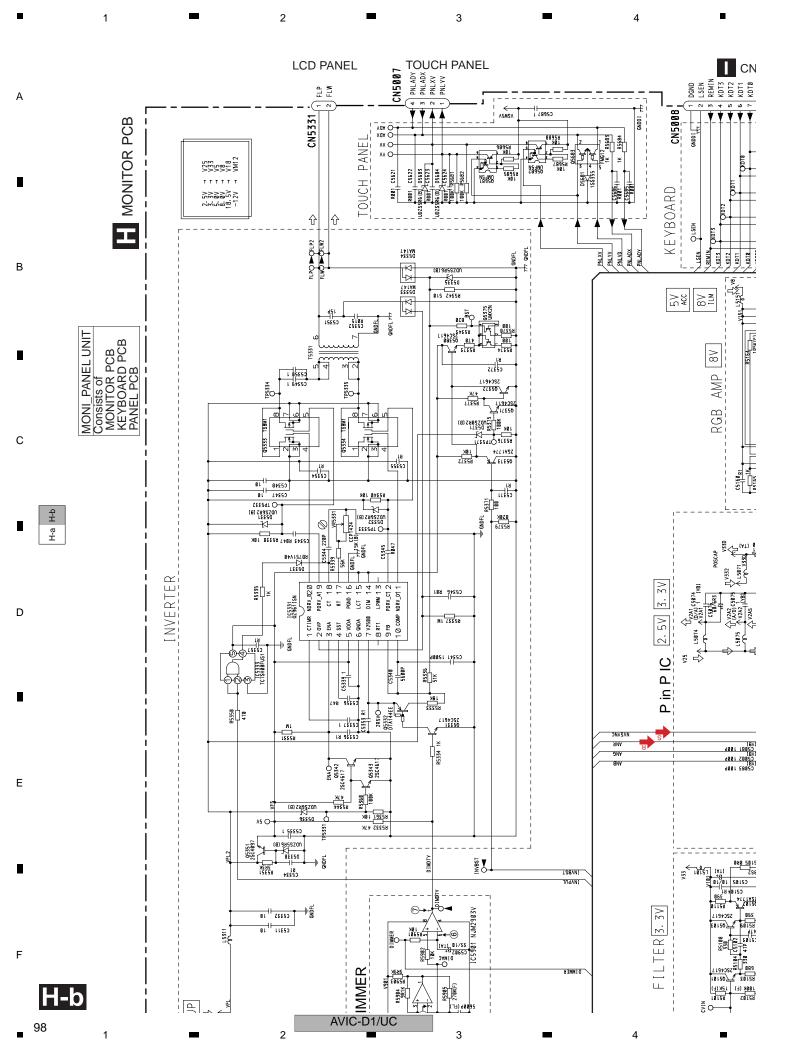
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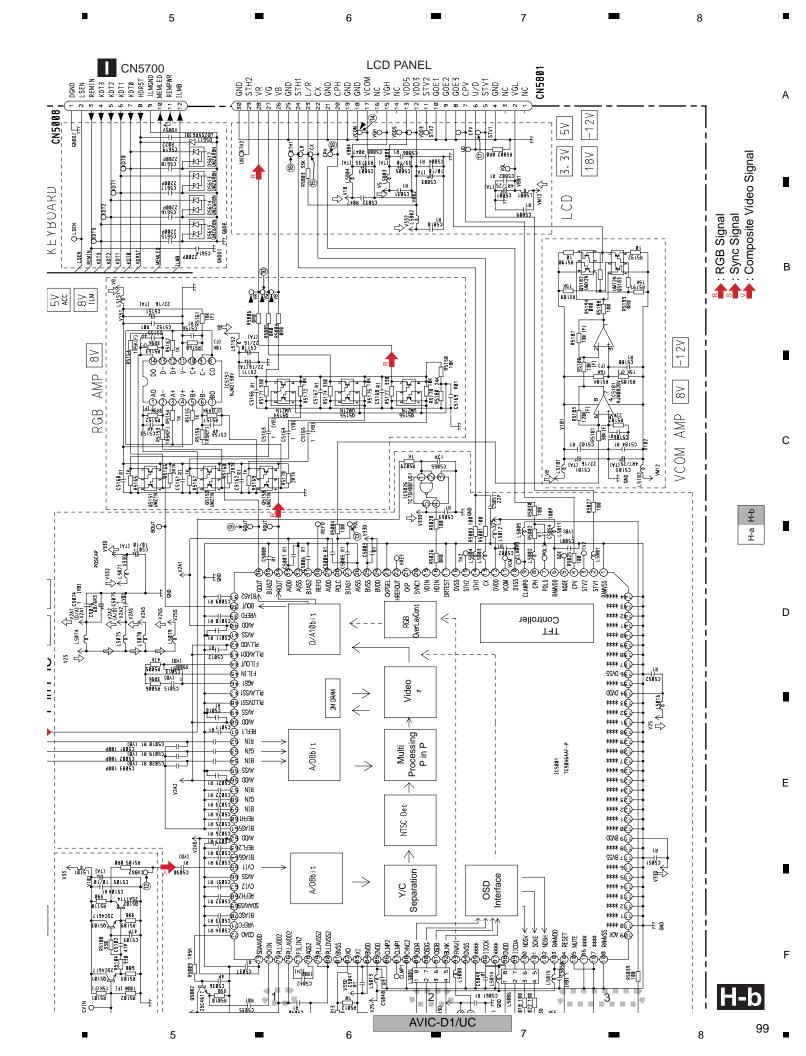
D

Е





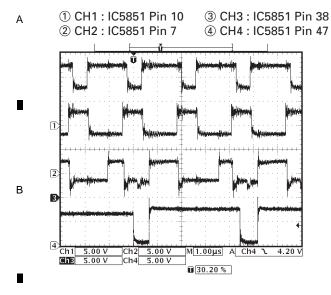


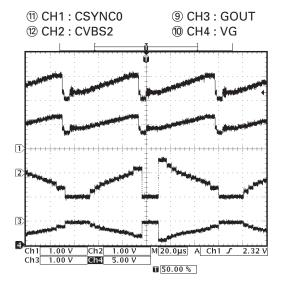


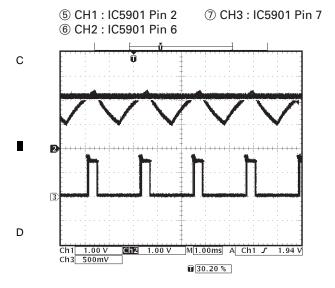
1 2 3 4

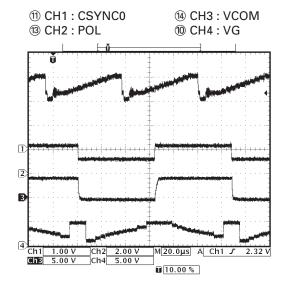
Waveforms

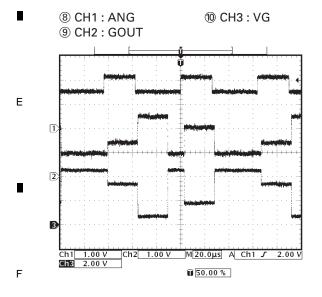
The encircled number denote measuring pointes in the circuit diagram.

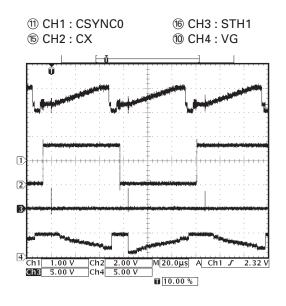












11 CH1: CSYNC0 ① CH3: STV1 15 CH2: CX 10 CH4: VG

M 400µs A Ch3 ✓

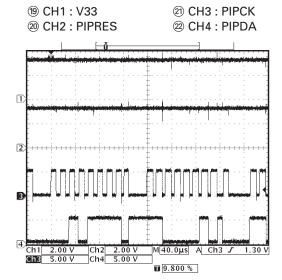
10 CH3: VG

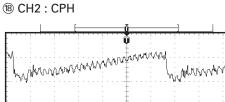
70.20 %

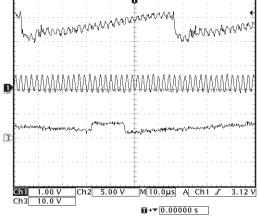
5

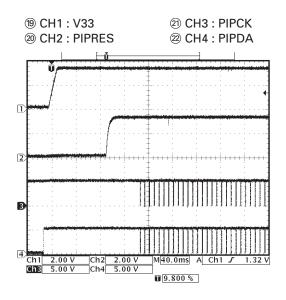
Ch1 1.00 V Ch2 2.00 V Ch3 5.00 V Ch4 5.00 V

① CH1: CSYNC0









D

С

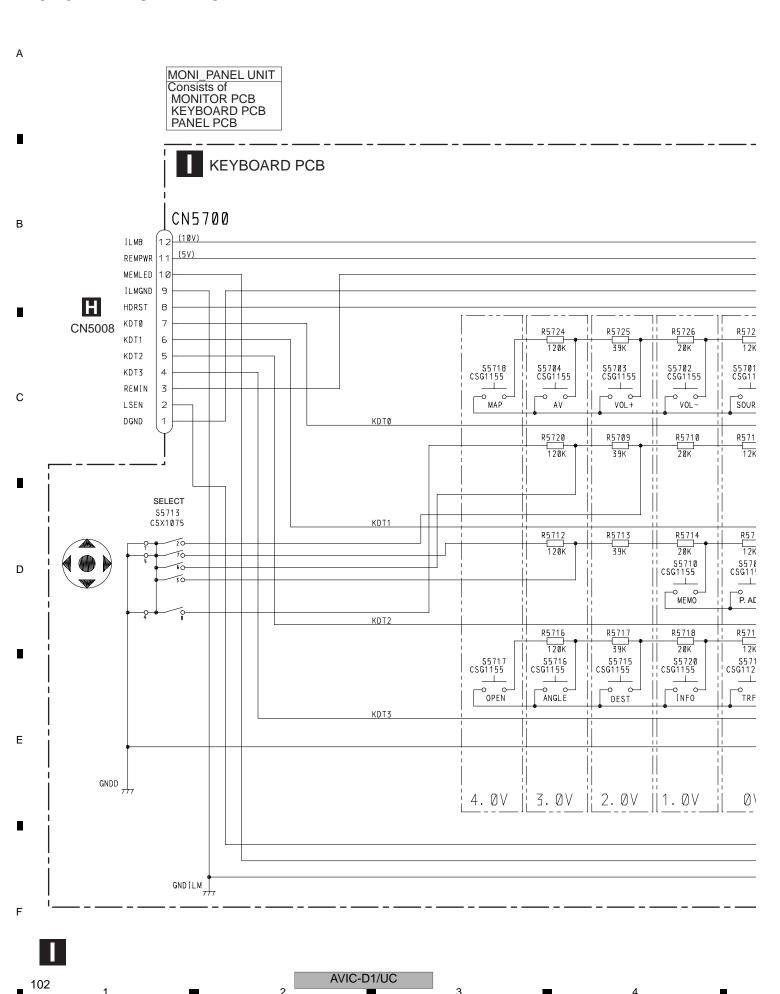
В

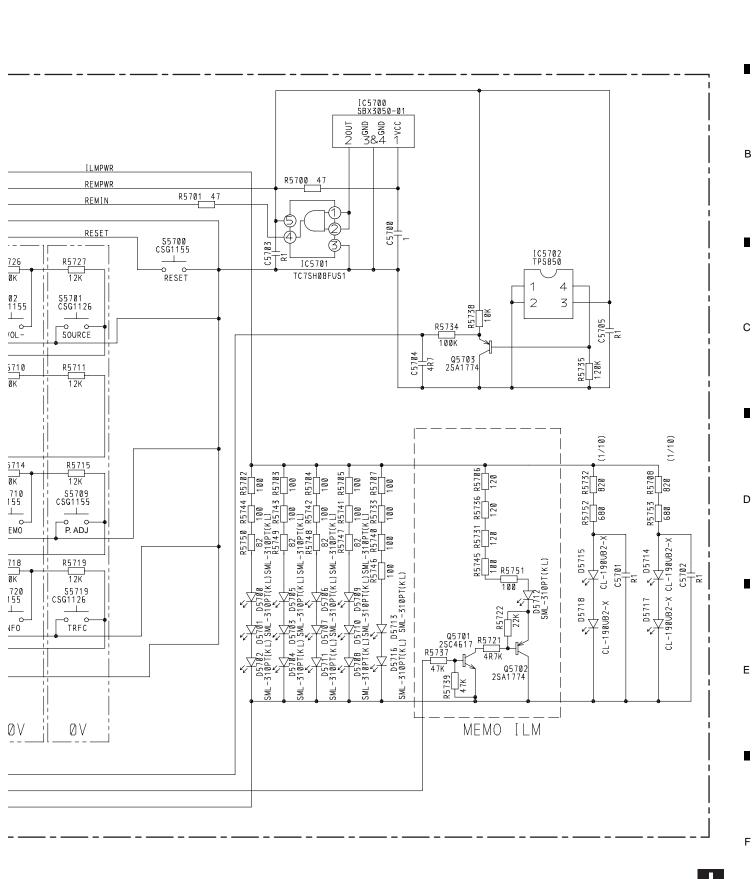
Ε

F

101

AVIC-D1/UC





AVIC-D1/UC

Α

J PANEL PCB D5902 N D5901 R595 SML-310PT(K L) SML-310PT(K L) 470 DVD IND С D5904 D5903 R5952 SML-310PT(KL) SML-310PT(KL)470 CD IND

DVD EJECT

CD EJECT

7

MONI_PANEL UNIT

Consists of MONITOR PCB KEYBOARD PCB PANEL PCB

D

Ε

AVIC-D1/UC

CN5901

GNDR

PNLILM

CDEJKY

DVEJKY

G

GNDR CN1651

R<u>595</u>6

R5957

100

2 CSG1126 DVD EJECT

\$5901 _____ CSG1126 CD EJECT

(1/10)

(1/10)

D5905 R5953

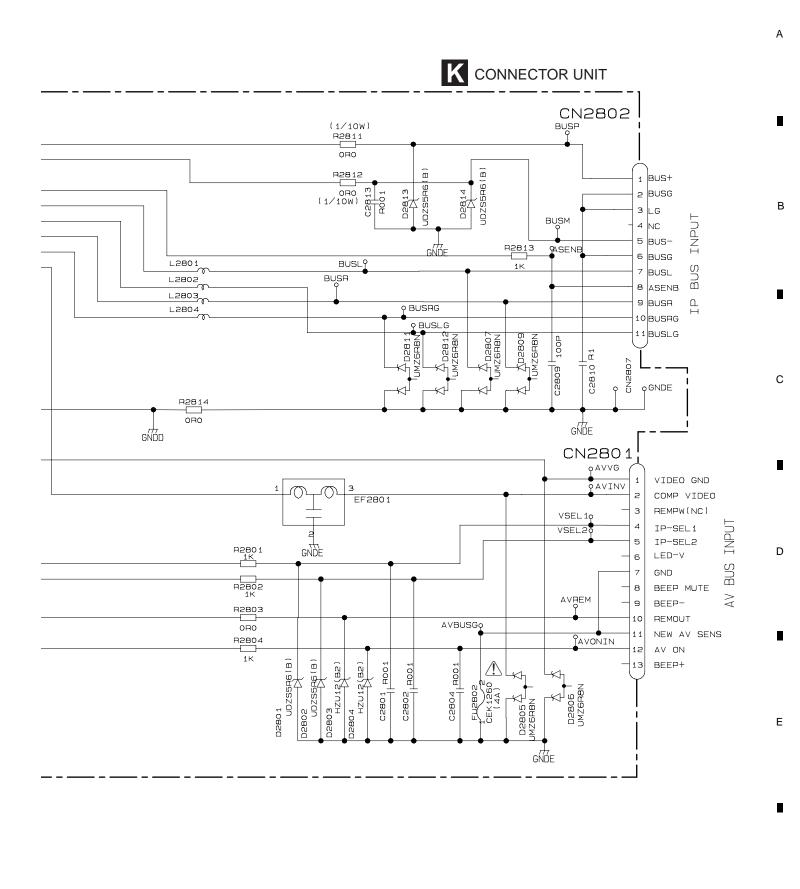
SML-310PT(KL) 910

D5906 R5954 SML-310PT(KL) 910

5 В С Ε AVIC-D1/UC 105 5

CN2804 BUS+ BUS+ BUS-BUS-29 VDD5 28 ASENB 27 BUSL BUSL 26 BUSLG BUSLG 25 BUSA BUSA 24 BUSRG 23 VIDEO 22 VGND VGND IPSEL1 IPSEL1 20 IPSEL2 IPSEL2 19 AVON 18 A 6/6 REMOUT REMOUT 17 CN702 _{GNDD} GNDD 16 FLPBUP 15 С FLPBUP 14 FLPBUP 13 12 NC GNDFLP 11 GNDFLP 10 GNDFLP 9 FLPPW 8 OPENSW 7 HOMESW 6 CFSW 5 PULSE 1 4 PULSE0 3 MOT1 2 мото 1 Ε CN2806 10 \leftarrow 0 0 7 10 0 \vee 00 0 PULSE0 PULSE1 GNDFLP GNDFLP GNDFLP FLPBUP FLPBUP FLPBUP MOTO MOT1 CFSW HOMESW OPENSW 2 L CN2

AVIC-D1/UC



K

AVIC-D1/UC 7

(

Α

В

С

Ε

108

CN2806

FLPBUP

NC

GNDFLP

GNDFLP

GNDFLP

FLPPW

HOMESW

HOMESW

HOMESW

HOMESW

HOMESW

MOTH

HOMESW

HOMESW

MOTH

HOMESW

MOTH

HOMESW

MOTH

HOMESW

MOTH

HOMESW L MAIN PCB UNIT CN2 5 HZU6R2(B2) 3= C14 R1 NC2 NC1 41 NC1 1 GND 2 VIN C11 10/16 C12 10/16 C13 R1 IC2 MOT1 VOUT ZON R22 H I N BA6288FS vcc 8 R19 1K R20 2 3Y 3 2A 14 7 34 6 24 5 C10 1TU0 GND2 10N Z R12 ZR2K C9 RØ47 104 OPEN SW 51, MPU12272MLB1
HOME SW 52, MPU12371MLB1

53, MPU11318MLB2 820 9 ₹ 2R2K IC5 CN1 M M10 R15 820 CZX5102 (FLAP) AVIC-D1/UC 3

Waveforms

5

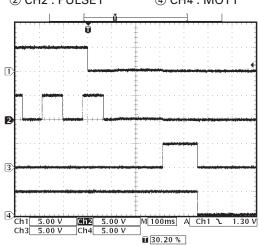
The encircled number denote measuring pointes in the circuit diagram.

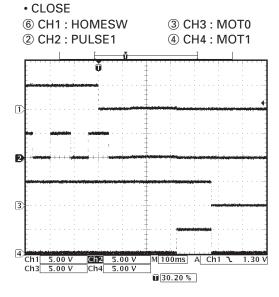
• FULL OPEN



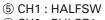
③ CH3: MOT0 ④ CH4: MOT1

6

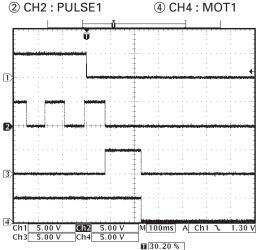




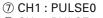
• HALF OPEN



③ CH3: MOT0



ANGLE



③ CH3: MOT0

В

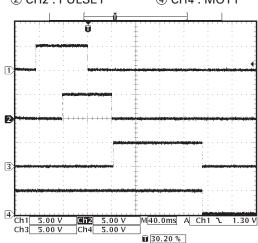
С

D

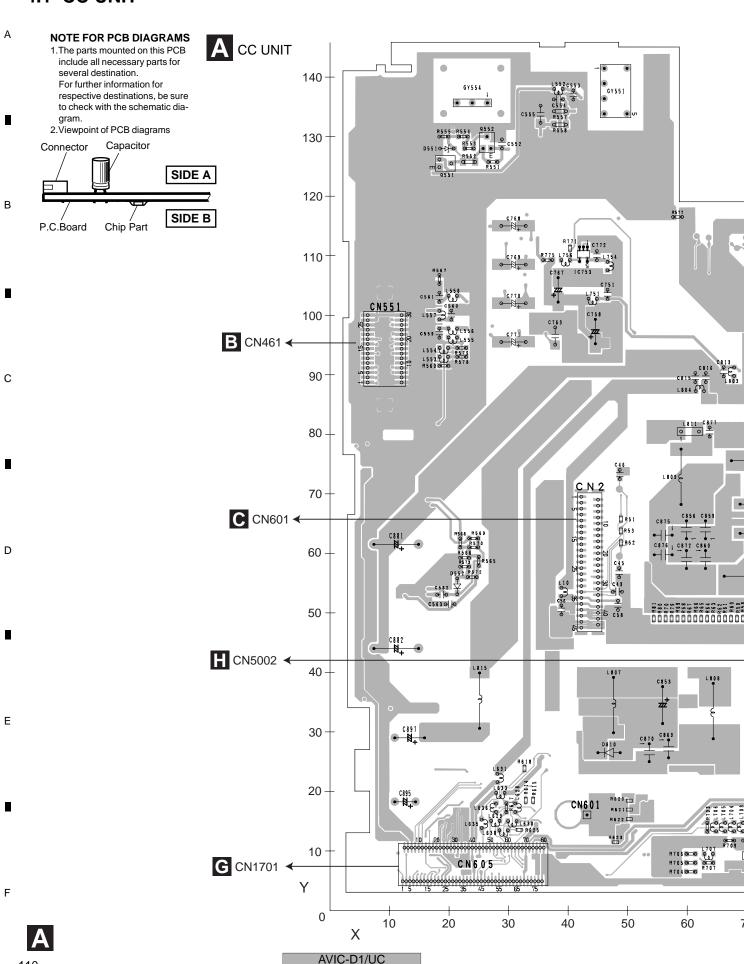
Ε

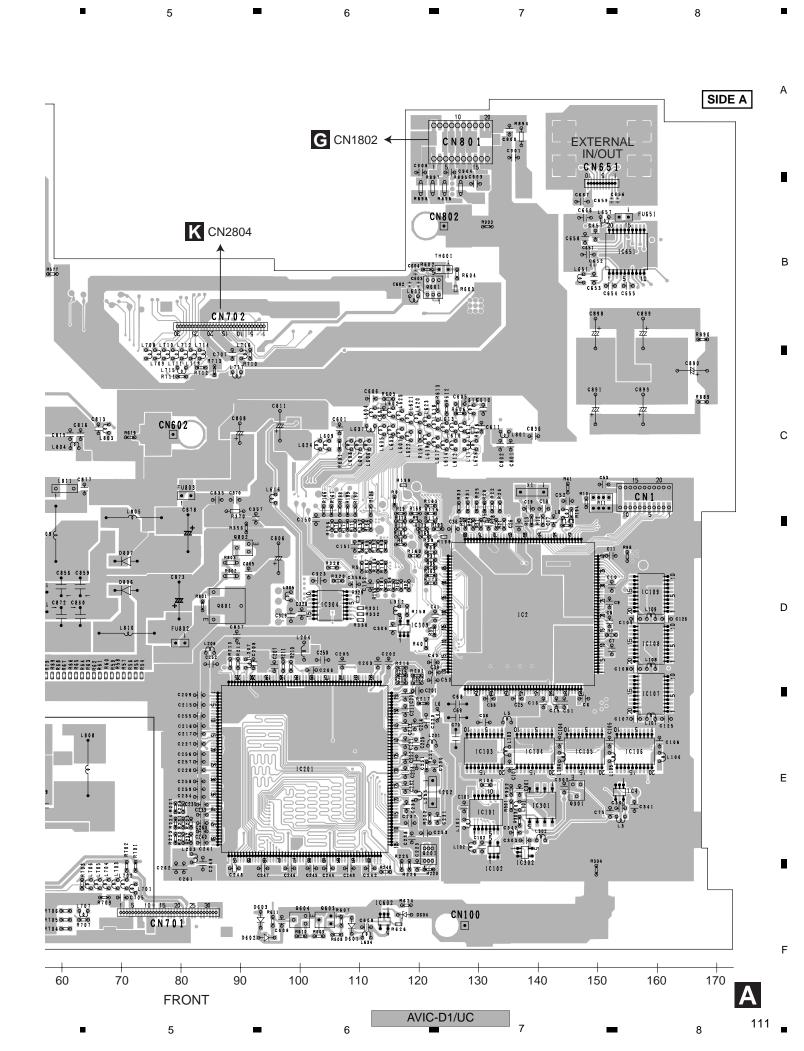
109

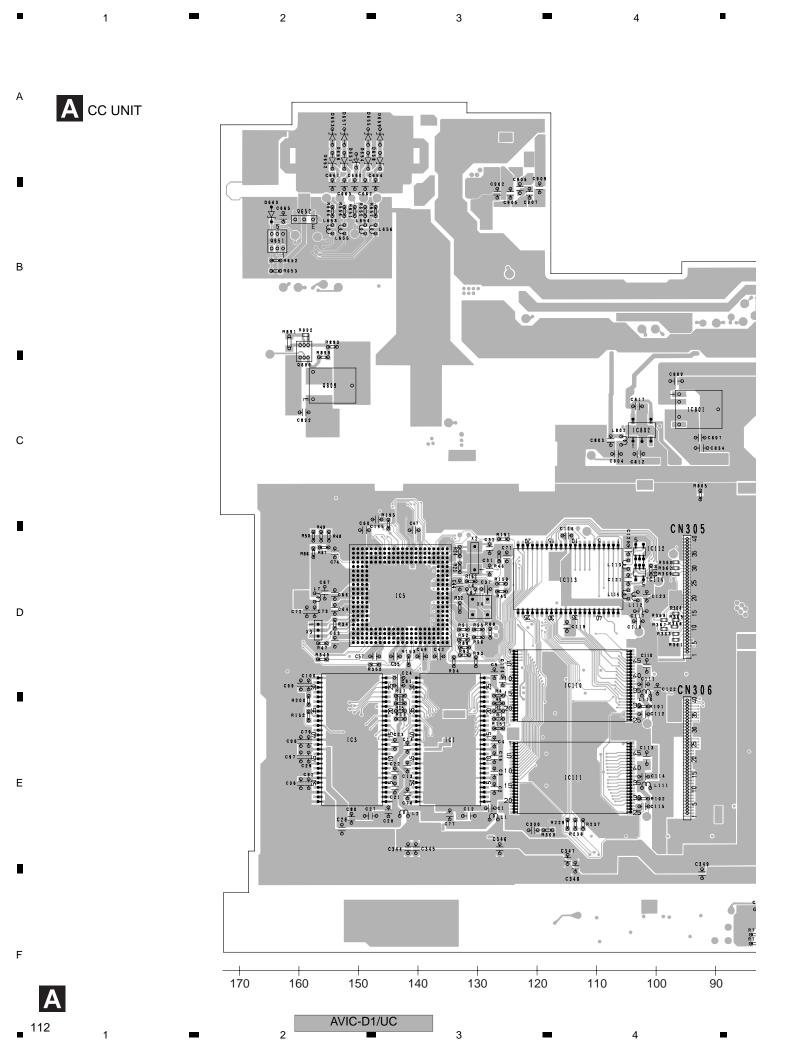


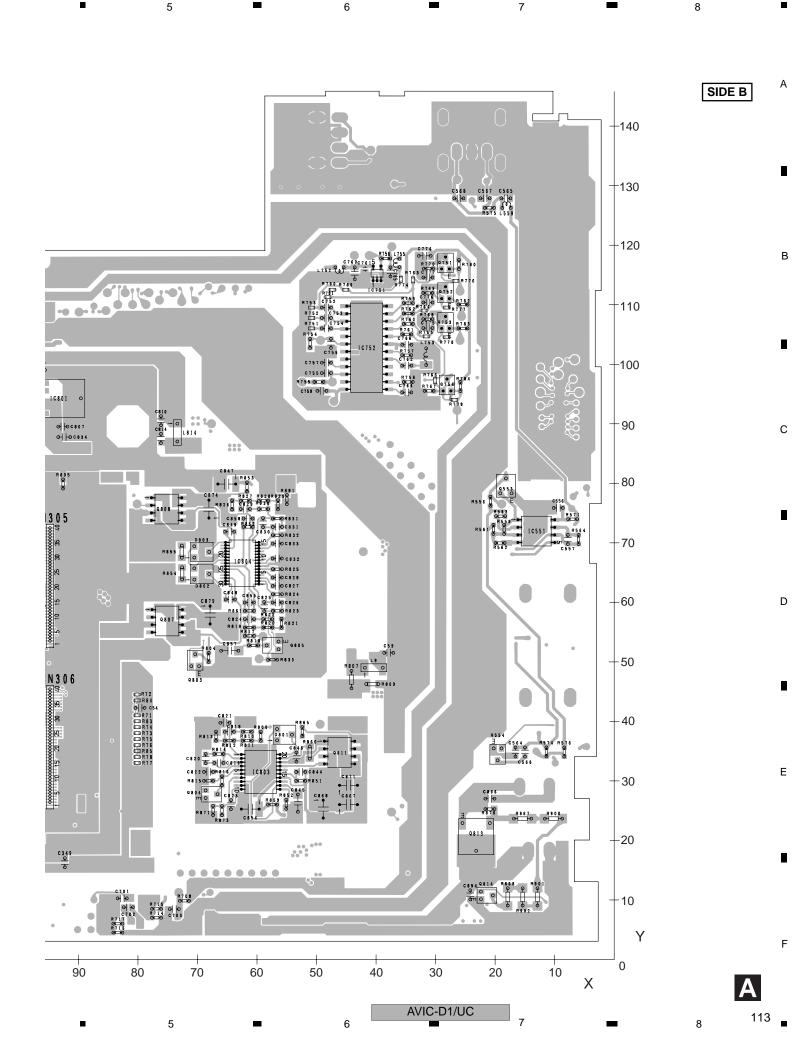


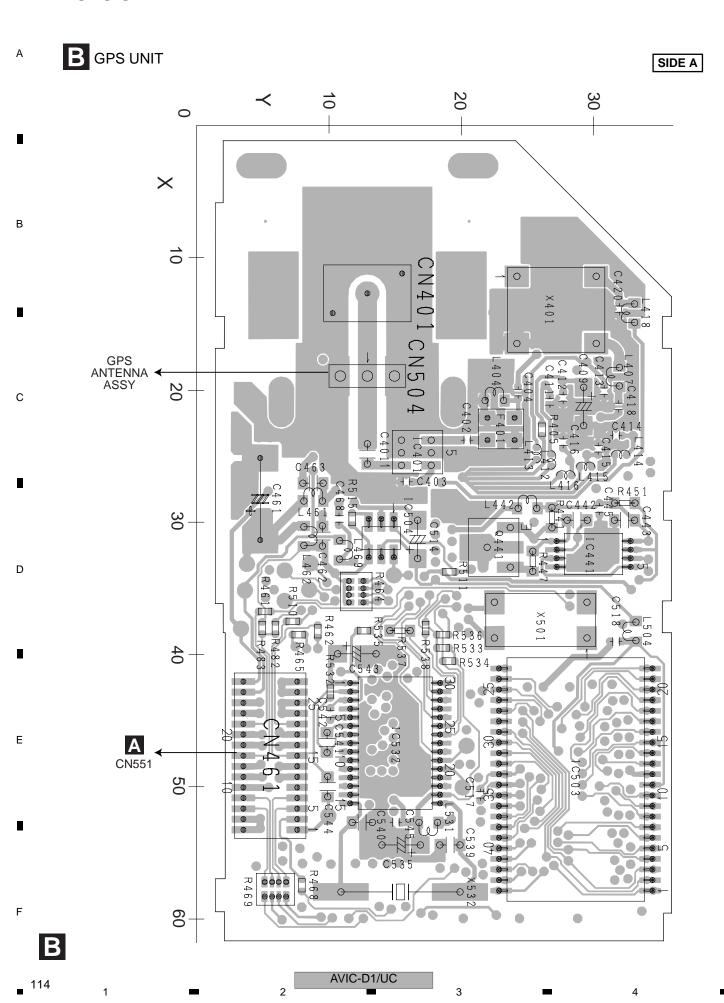
AVIC-D1/UC









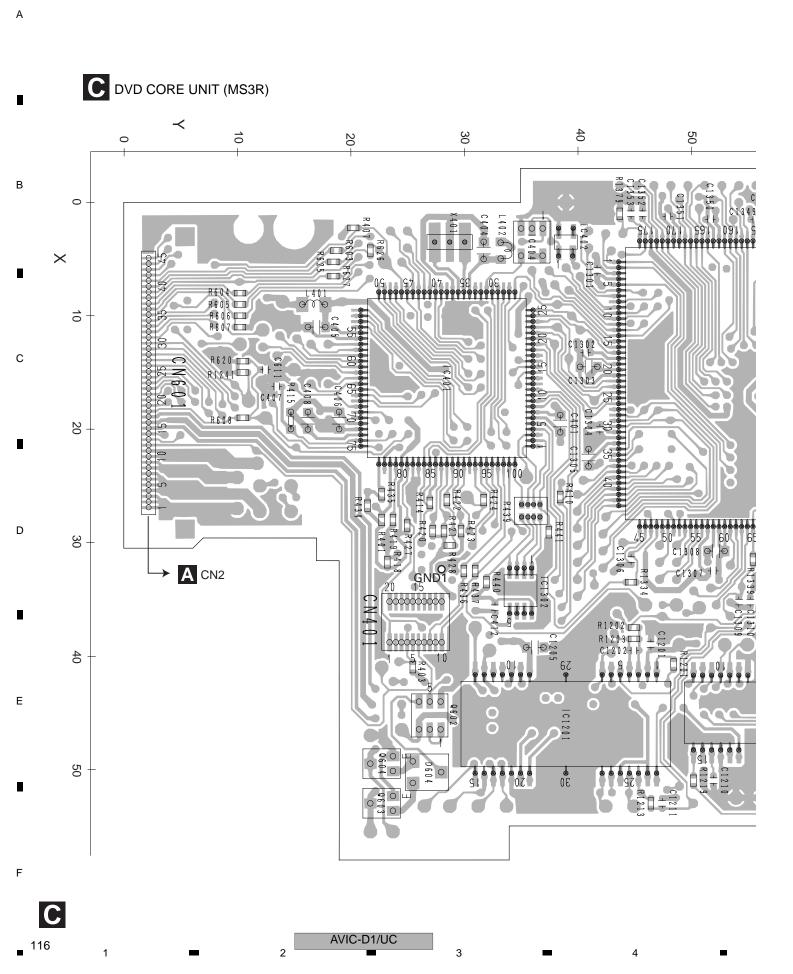


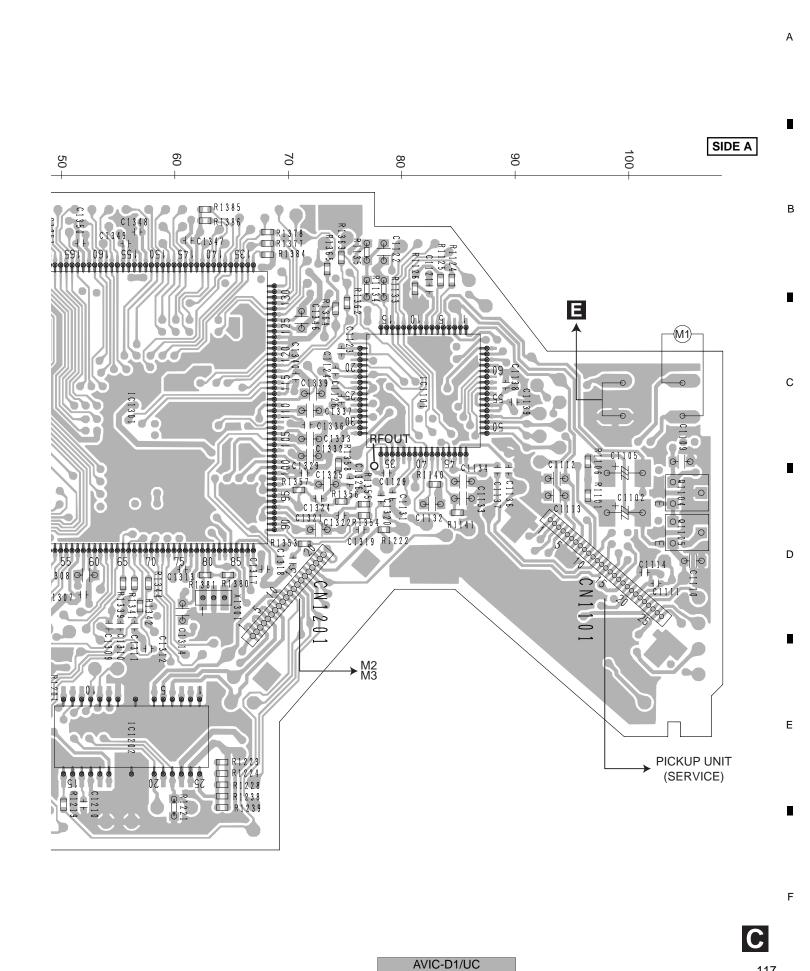
B GPS UNIT SIDE B 30 20 0 \times 10 C408+ F R402 Q5Q 20 PL402 F ⊖ C424 30 40 99 50 9 AVIC-D1/UC 5

В

Е

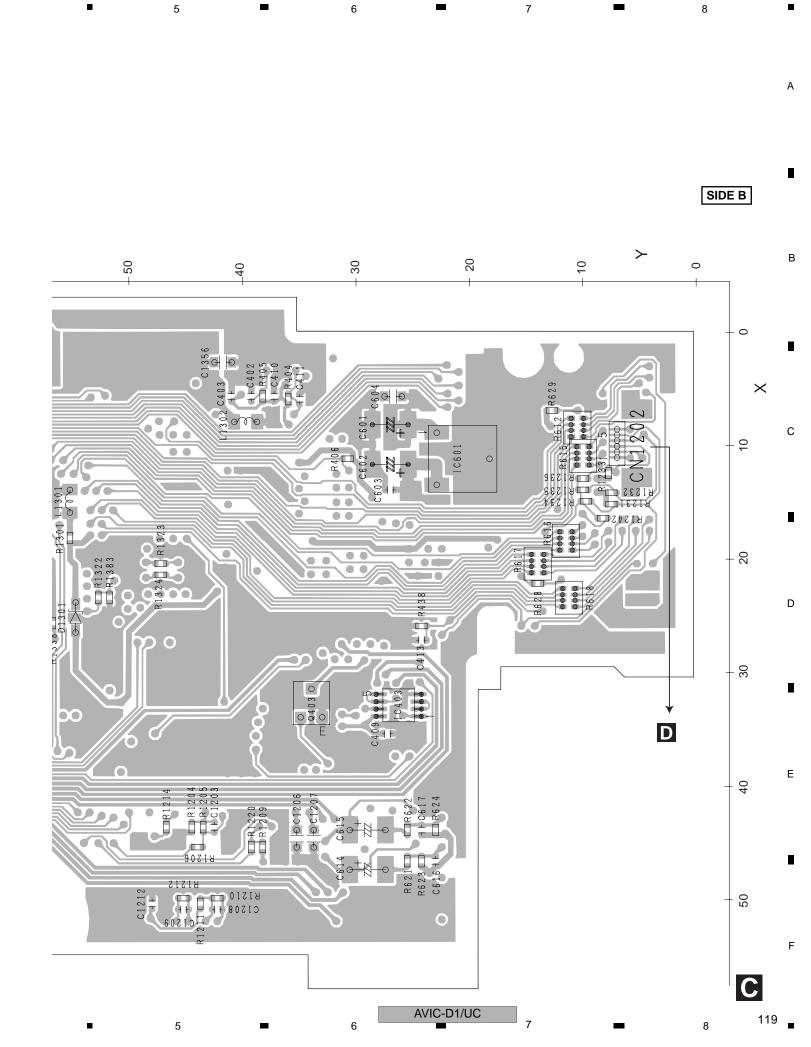
4.3 DVD CORE UNIT(MS3R)





C DVD CORE UNIT (MS3R) - 90 80 - 70 - 60 С B13€3

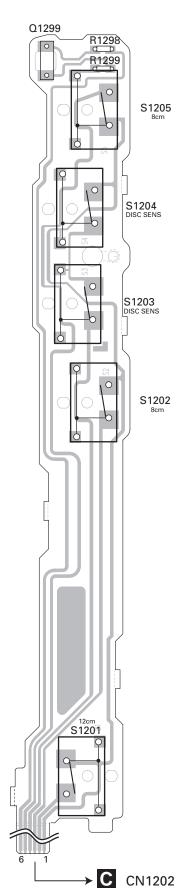
C11514+ 323 AVIC-D1/UC

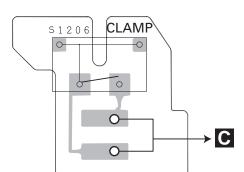


4.4 COMPOUND UNIT(A) AND COMPOUND UNIT(B)

D COMPOUND UNIT(A)

E COMPOUND UNIT(B)





DE

AVIC-D1/UC

120

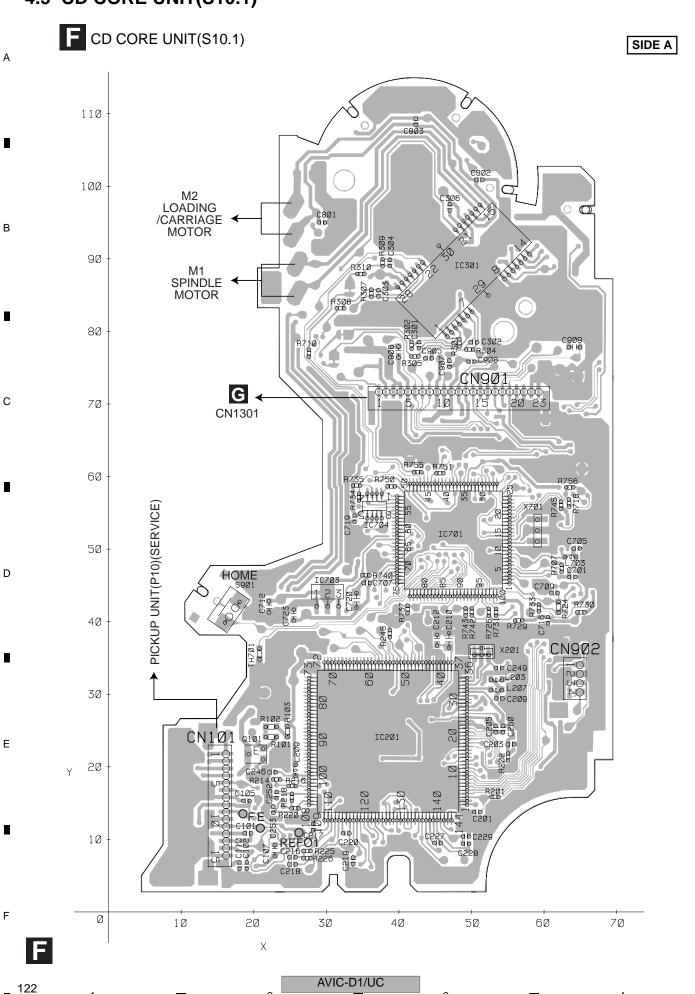
С

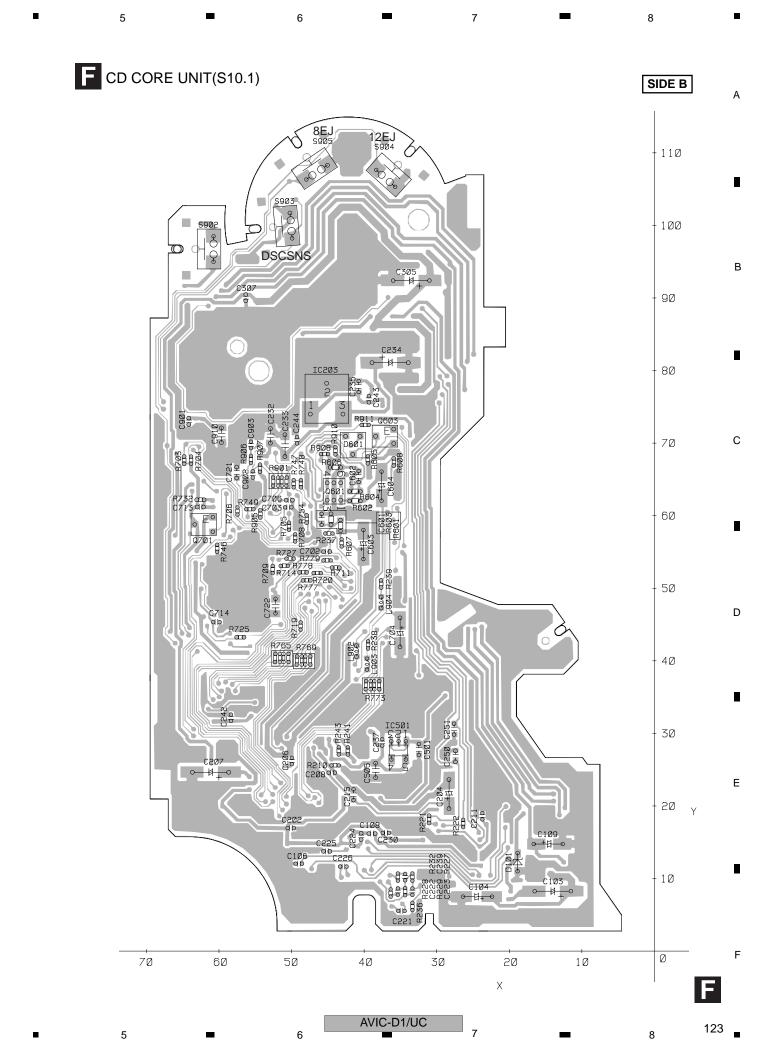
Ε

.

5 В С Е AVIC-D1/UC 121 5

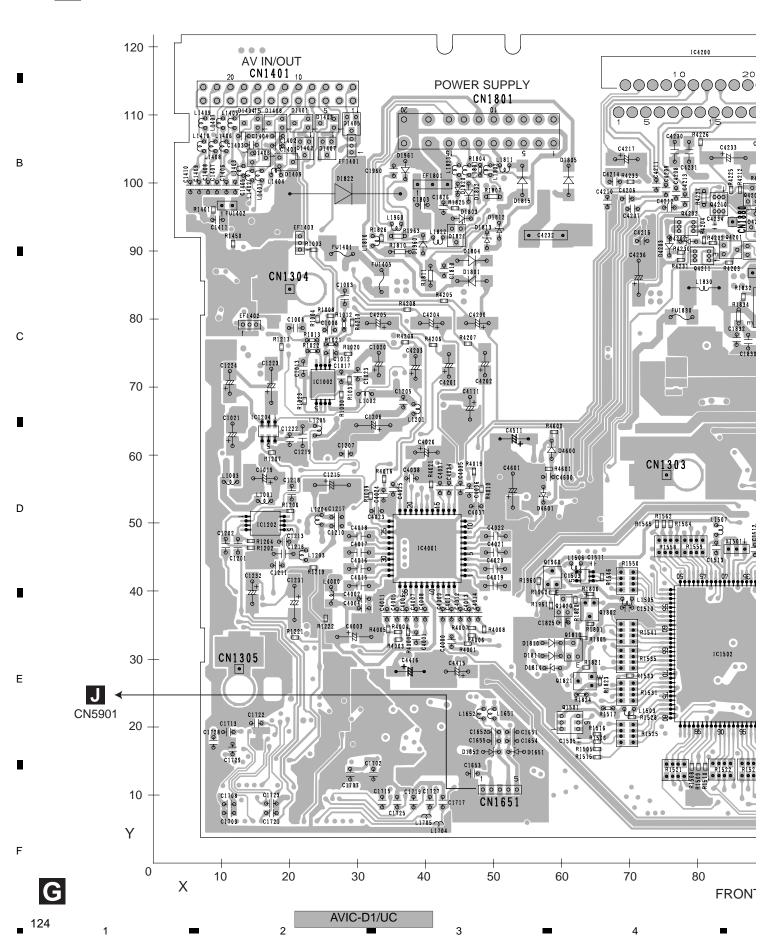
4.5 CD CORE UNIT(\$10.1)





4.6 SYSTEM UNIT

G SYSTEM UNIT



SIDE A IC4200 CN1450)0000000 **F** CN901 WIRED REMOTE CONTROLLER 22 R4211 Q4212 Q4210 Q42 FM/AM **ANTENNA** CN4300 CN4301 • -0 С ★ ★ C1830 C1910 C1910 Q1831 O O C4309 • FM/AM TUNER UNIT Œ D4300 CN1301 5 10 15 20 D 0 0 IC4301 C4307 C4306 20 FU1920 • • IC1502 C1920 Ε CN1501 CN1302 80 100 110 120 130 140 150 90 160 170 G **FRONT** AVIC-D1/UC 125 5

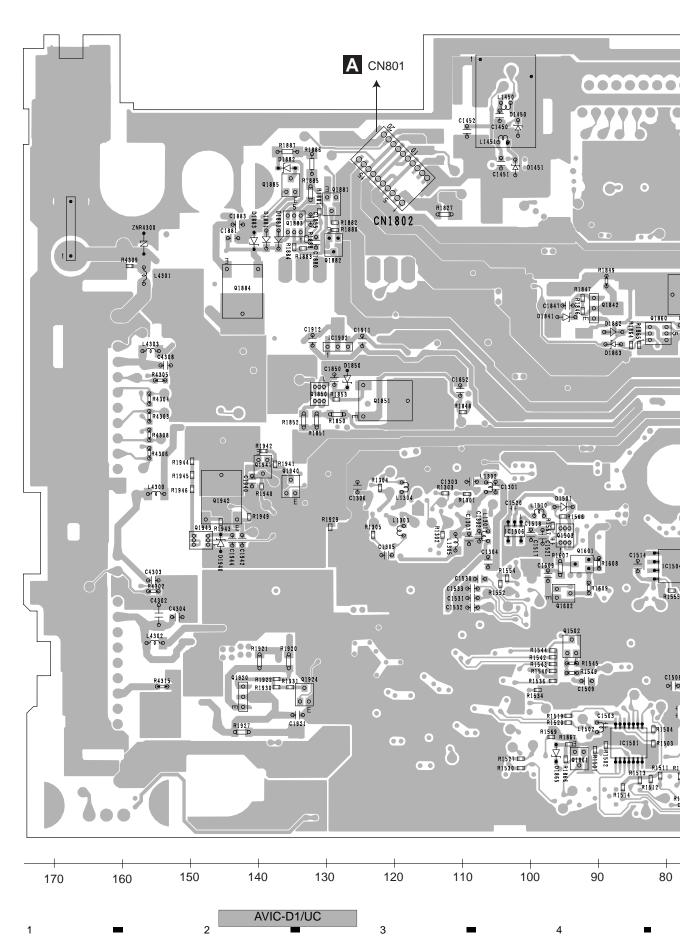
5

В

G SYSTEM UNIT

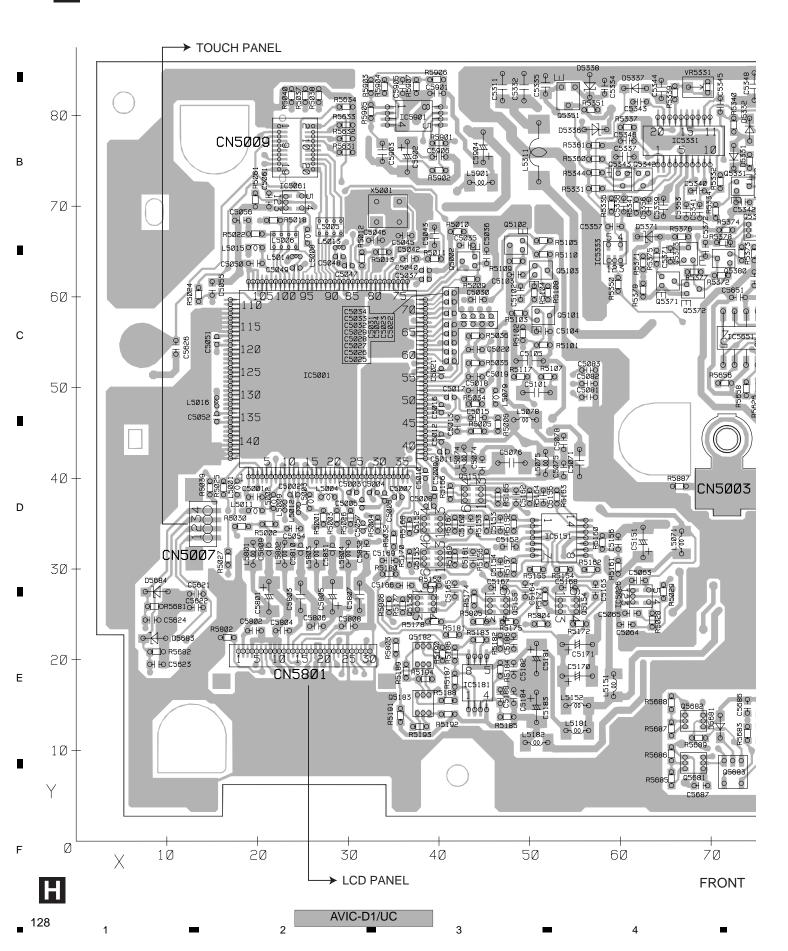
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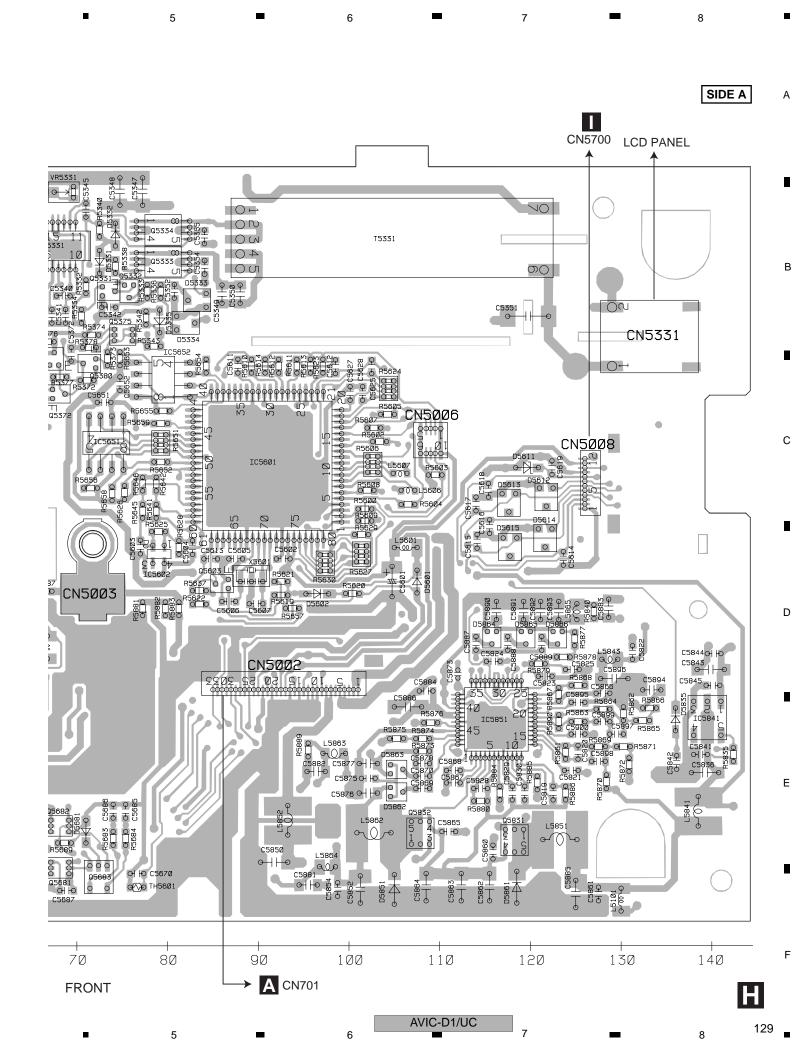
Ε



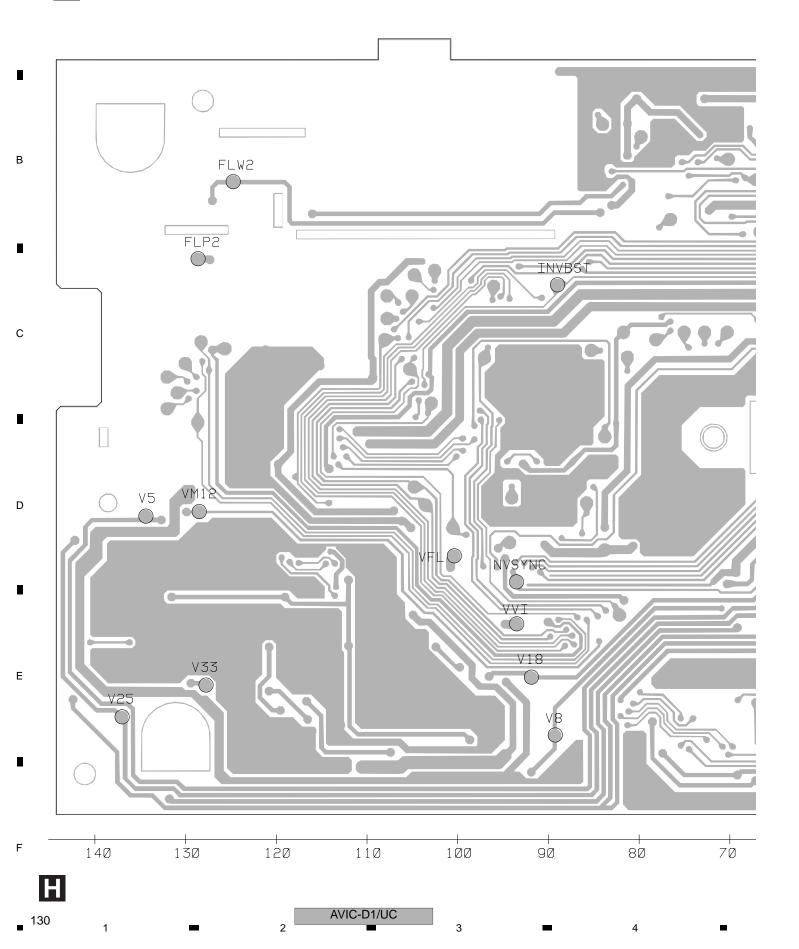
4.7 MONITOR PCB

MONITOR PCB

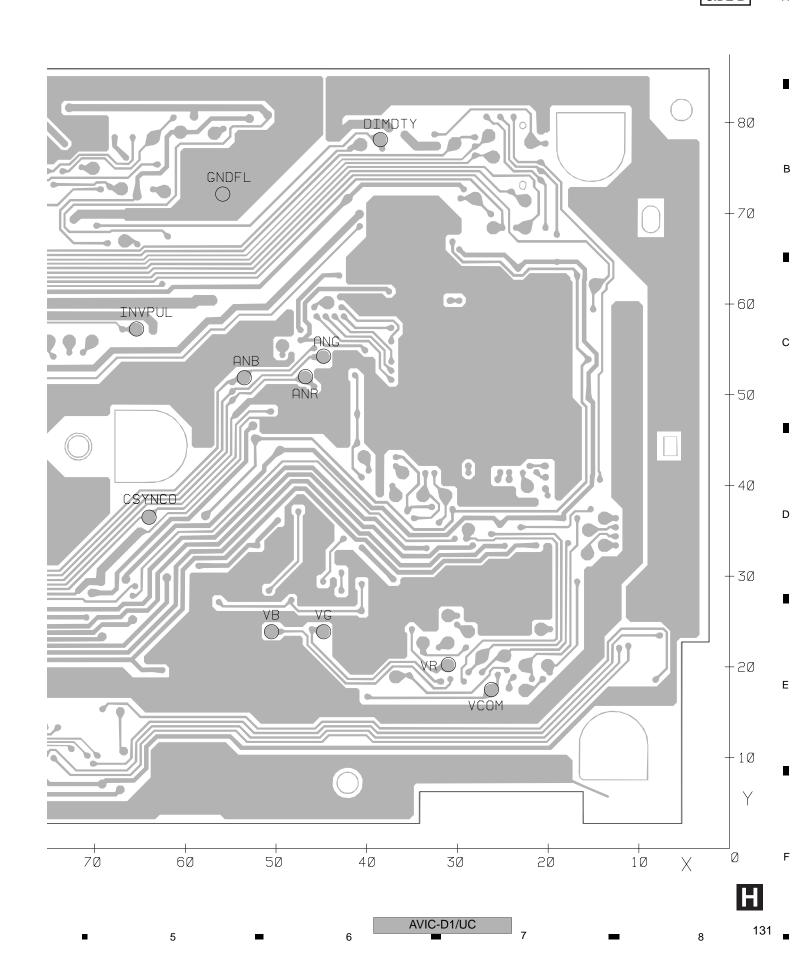




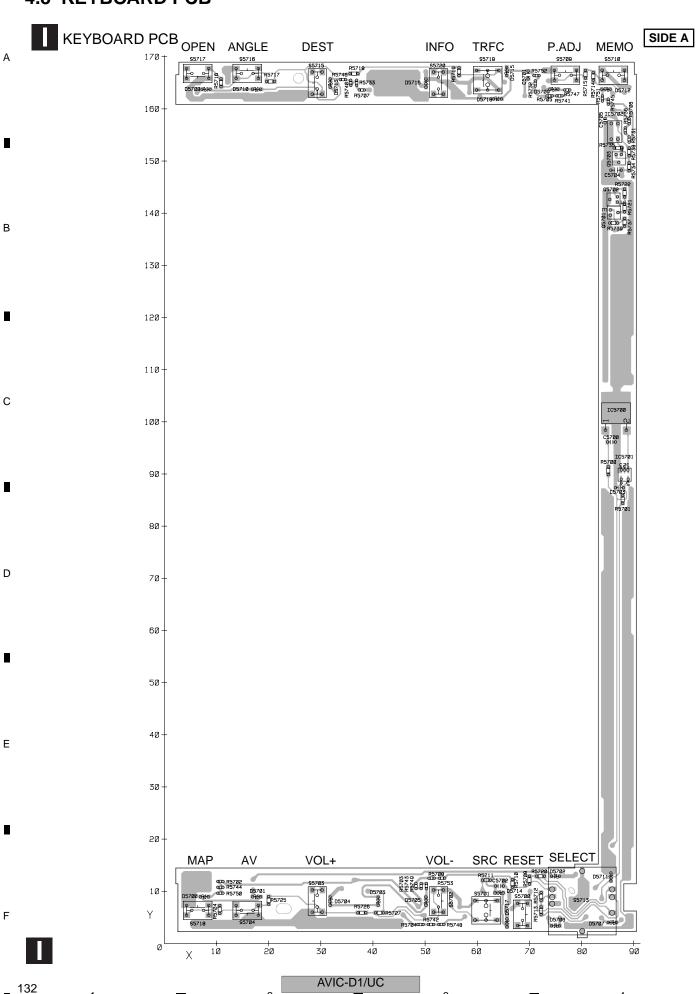
A MONITOR PCB

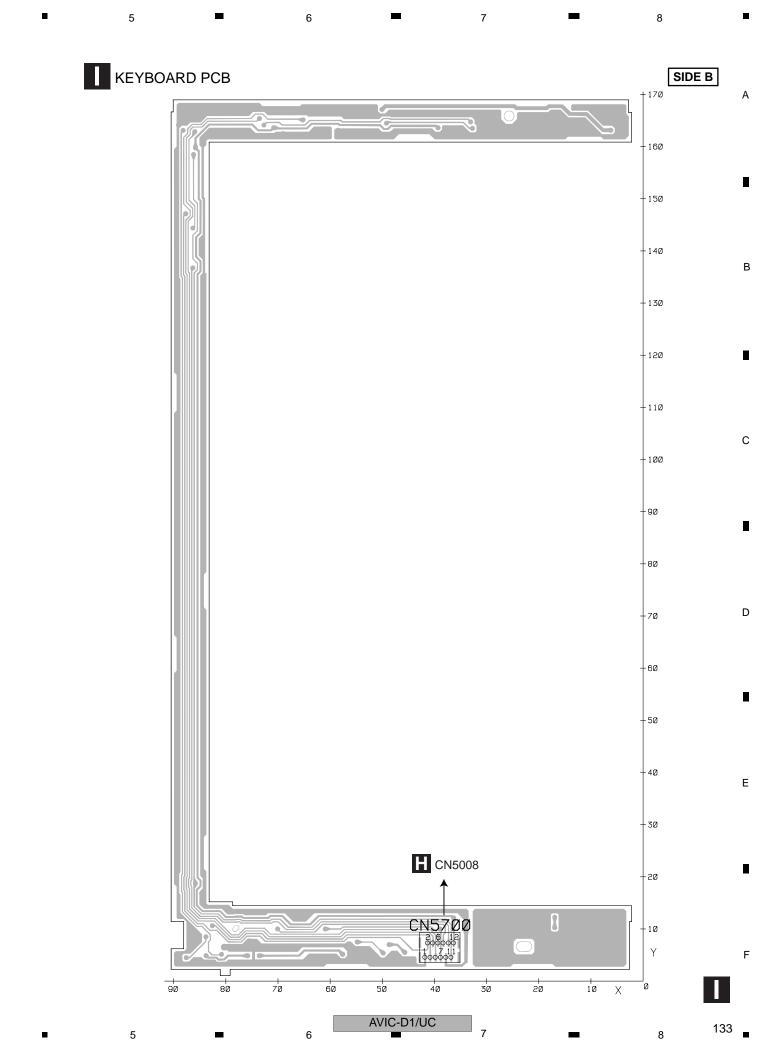


SIDE B



4.8 KEYBOARD PCB





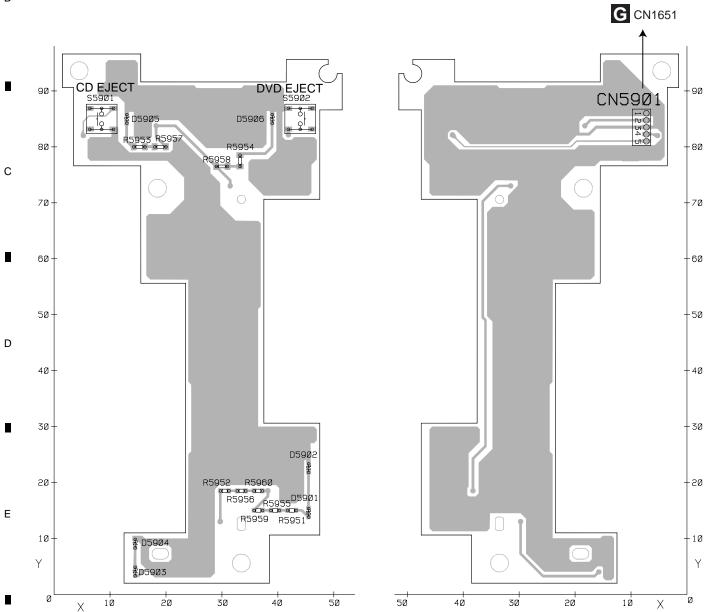
4.9 PANEL PCB

Α

В

J PANEL PCB SIDE A J PANEL PCB

3



J

5 В С Ε AVIC-D1/UC 135 5

4.10 CONNECTOR UNIT

Α

136

K CONNECTOR UNIT SIDE A CN2807 +2 9 IP-BUS IN CN2802 $20 \pm$ CN702 -64 - 9 -8 AV-BUS IN Е 0 L 00 CN2 0 CN2806 CN2801 \times 30-20 10 AVIC-D1/UC

5

K CONNECTOR UNIT

70

60 -

50

40-

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×

0

10

SIDE B

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AVIC-D1/UC

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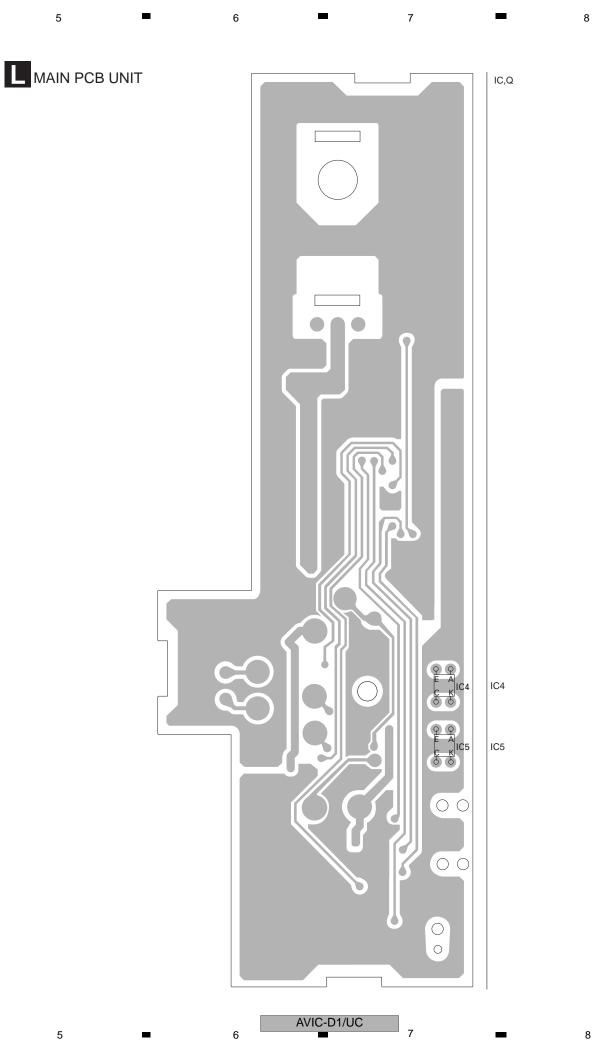
30

⁻20

4.11 MAIN PCB UNIT MAIN PCB UNIT IC,Q Q1 000 Q2 D9 D5 D7 → K CN2806 Q4 06 10 05 20 04 30 R11 Q3 Q3 Q4 CN1 ОНО C6 **→** M10 1 2 0 0 (FLAP) оно с8 IC1 R15 OPEN R13 IC3 OHO С13 ОЮ С14 IC2 HOME HALF AVIC-D1/UC 138 3

В

Е



5

5

В

С

Ε

5. ELECTRICAL PARTS LIST

NOTE:

- Parts whose parts numbers are omitted are subject to being not supplied.
- The part numbers shown below indicate chip components.

Chip Resistor

 $RS1/\bigcirc S\bigcirc\bigcirc\bigcirc J, RS1/\bigcirc\bigcirc S\bigcirc\bigcirc J$

Chip Capacitor (except for CQS.....)

CKS....., CCS....., CSZS.....

- The <u>A</u> mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Meaning of the figures and others in the parentheses in the parts list.
- Example) IC 301 is on the point (face A, 91 of x-axis, and 111 of y-axis) of the corresponding PC board.

IC 301 (A, 91, 111) IC NJM2068V

	Cir	Circuit Symbol and No. Part No.		<u>Cir</u>	Circuit Symbol and No.			
		•		IC 804	(B,62,67) IC	TPS5102IDBT		
				Q 201	(A,122,19) Transistor	UMD2N		
	A			0.204	(A 44C 20) Transistan	DTC444EU		
				Q 301	(A,146,30) Transistor	DTC114EU		
	Unit Nเ	ımber:CWM9919		Q 551	(A,19,126) Transistor	DTC114EU		
	Unit Na	me:CC Unit		Q 552	(A,26,129) Transistor	2SA1576		
С	Offic Ne	ine.cc onit		Q 553	(B,18,80) Transistor	DTC114WK		
	MICCELI	ANEOUS		Q 554	(B,20,34) Transistor	DTC114EU		
	MISCELI	<u>LANEOUS</u>		Q 601	(A,122,114) Transistor	IMD2A		
	10.4	(D. 105.00) 10	1/40504000E TI 75	Q 603	(A,104,8) Transistor	2SA1576		
	IC 1	(B,135,39) IC	K4S561632E-TL75					
	IC 2	(A,137,59) IC	UPD705103GM-180S1	Q 604	(A,100,8) Transistor	2SC4081		
	IC 3	(B,151,39) IC	HY57V561620CLT-H	Q 651	(B,164,123) Transistor	IMD3A		
	IC 4	(A,154,29) IC	TC7SZ08FU	Q 652	(B,159,128) Transistor	2SD1767		
	IC 5	(B,143,63) IC	PD6336C	o	(5.00.445) =			
				Q 751	(B,28,117) Transistor	2SA1576		
	IC 101	(A,131,26) IC	TC74LCX08FTS1	Q 752	(B,28,112) Transistor	2SA1576		
	IC 102	(A,133,20) IC	TC7SH04FUS1	Q 753	(B,28,107) Transistor	2SA1576		
	IC 103	(A,131,36) IC	TC74LCX245FTS1	Q 754	(B,28,97) Transistor	2SA1576		
D	IC 104	(A,139,36) IC	TC74LCX245FTS1	Q 801	(A,90,61) Transistor	2SB1184F5		
	IC 105	(A,148,36) IC	TC74LCX245FTS1					
				Q 802	(A,90,71) Transistor	DTC114EU		
	IC 106	(A,156,36) IC	TC74LCX245FTS1	Q 803	(B,70,50) Transistor	DTC114EU		
	IC 107	(A,159,46) IC	TC74LCX541FTS1	Q 804	(B,68,28) Transistor	DTC114EU		
	IC 108	(A,159,54) IC	TC74LCX541FTS1	Q 805	(B,57,53) Transistor	DTC114EU		
_	IC 109	(A,159,63) IC	TC74LCX541FTS1	Q 806	(B,159,104) Transistor	UMF23N		
	IC 110	(B,114,48) IC	PEH007A		,			
	10 110	(2,111,10)	1 21100771	Q 807	(B,75,57) FET	RK4936		
	IC 111	(B,114,32) IC	PEH008A	Q 808	(B,75,76) FET	RK4936		
	IC 112	(B,103,70) IC	TC7SH00FUS1	Q 809	(B,153,98) Transistor	2SD1760F5		
	IC 112	(B,115,66) IC	M5M5V216ATP-70HI	Q 811	(B,46,35) FET	RK4936		
	IC 114	(B,103,67) IC	TC7SH08FUS1	Q 813	(B,23,18) Transistor	2SA1385-ZS1		
Е	IC 201	(A,101,33) IC	MB86291APFVS-G-DL		(-,,,			
_	10 201	(A,101,33) 10	WIDOOZSTALT VO G DE	Q 814	(B,21,11) Transistor	DTC114EU		
	IC 301	(A,140,27) IC	M51957BFP	D 551	(A,20,128) Diode	UDZS5R6(B)		
	IC 301	(A,138,19) IC	TC7SH08FUS1	D 552	(A,21,54) Diode	1SS355		
	IC 302			D 601	(A,109,7) Diode	1SS355		
		(A,105,61) IC	AK4351VT	D 602	(A,94,5) Diode	1SS355		
	IC 309	(A,117,57) IC	TC7SH08FUS1	D 002	(A,54,5) Diode	100333		
	IC 551	(B,13,72) IC	NJM2904M	D 603	(A,93,8) Diode	1SS355		
	IC 602	(A,114,8) IC	TC7SH14FUS1	D 604	(A,118,9) Diode	UDZS5R6(B)		
	IC 651	(A,155,120) IC	UPD4721GSS1	D 651	(B,150,136) Diode	UDZS6R8(B)		
	IC 051	(B,40,115) IC	TC7SH08FUS1	D 652	(B,154,136) Diode	UDZS20(B)		
	IC 751		BH7236AF	D 653	(B,154,140) Diode	UDZS20(B)		
		(B,42,103) IC		В 000	(B, 104, 140) Blode	OB2020(B)		
F	IC 753	(A,43,110) IC	TC7SH08FUS1	D 654	(B,148,136) Diode	UDZS20(B)		
•	10.004	(D.04.04), IC	DA OFDCOMED	D 655	(B,148,140) Diode	UDZS20(B)		
	IC 801	(B,91,94) IC	BA25BC0WFP	D 656	(B,152,136) Diode	UDZS20(B)		
	IC 802	(B,102,91) IC	S-818A33AUC-BGN		· / /			
	IC 803	(B,59,32) IC	TPS5103IDB	D 657	(B,152,140) Diode	UDZS20(B)		
	140		AVIC-D ²	1/UC				

	5		6			7		8	
	Circuit Symbol an	nd No. Part I	No.		Circu	iit Symbo	ol and No.	Part No.	
D 65				L	610	(A,126,91)		CTF1306	
D 65	(' ' '		` '		611	(A,128,91)		CTF1306	_
D 66	,		(B1)		612	(A,126,88)		CTF1384	Α
D 80		RB400D			613	(A,125,91)		CTF1387	
D 80		RB400D			614	(A,125,88)		CTF1334	
D 80	3 (B,69,68) Diode	RB400D		L	615	(A,129,94)	Inductor	CTF1334	
D 80	6 (A,71,63) Diode	RB060L-	40	1	616	(A,96,79) I	nductor	CTF1306	
D 80	,	RB060L-			617	(A,123,88)		CTF1306	_
D 81		RB060L-			618	(A,123,91)		CTF1306	
L 1	(B,127,25) Induc				619	(A,122,89)		CTF1334	
L 2	(B,142,26) Induc				620	(A,120,92)		CTF1334	
	(4.454.05)				004	(4.440.00)		0754004	
L 3	(A,154,25) Induc				621	(A,119,92)		CTF1334	
L 5	(A,135,41) Induc					(A,119,89)		CTF1334	В
L 6	(A,123,42) Induc				623	(A,122,92)		CTF1306	5
L 7 L 8	(B,157,63) Induc (A,144,76) Induc				624 625	(A,103,88) (A,117,93)		CTF1334 CTF1306	
LO	(A, 144,70) IIIddc	011 1330	,	_	023	(A,117,33)	inductor	011 1300	
L 9	(B,40,49) Inducto	or CTF1453	3	L	626	(A,130,88)		CTF1306	
L 10	(A,39,54) Inducto	or CTF1463	3	L	628	(A,31,17) I	nductor	CTF1306	
L 11		ctor CTF1306	3	L	629	(A,28,15) I	nductor	CTF1306	
L 10	1 (A,128,24) Induc	ctor CTF1557	7	L	630	(A,31,15) I	nductor	CTF1306	
L 10	2 (A,129,20) Induc	ctor CTF1557	7	L	631	(A,28,22) I	nductor	CTF1334	
L 10	3 (A,135,36) Induc	ctor CTF1557	,		632	(A,119,113)	Inductor	CTF1334	
L 10	,					(A,119,113) (A,29,20) I		CTF1334 CTF1334	
L 10					634	(A,29,20) II		CTF1334	
L 10					635	(A,111,5) II (A,25,15) II		CTF1306	С
L 10					636	(A,28,17) I		CTF1378	
	(, , , , , , , , , , , , , , , , , , ,			_		(,==,,			
L 10	,				637	(A,112,91)		CTF1306	
L 10						(A,29,13) I		CTF1306	
L 11					651	(A,148,116)		CTF1410	
L 11					653	(B,154,125)		CTF1334	
L 11	2 (B,103,63) Induc	ctor CTF1556	j .	L	654	(B,149,125)	Inductor	CTF1334	
L 11	3 (B,105,68) Induc	ctor CTF1557	,	L	655	(B,152,125)	Inductor	CTF1334	
L 11	,				656	(B,147,125)		CTF1334	
L 20					657	(A,151,126)		CTF1463	
L 20					701	(A,72,13) I	nductor	CTF1306	
L 20	4 (A,101,53) Induc	ctor CTF1488	3	L	702	(A,71,14) I	nductor	CTF1306	D
	5 (A 440 00) le de-	OTE455			700	(4.00.44) 1	- desetes	OTE4000	
L 20	· · · · /				703	(A,69,14) I		CTF1306	
L 20					704	(A,68,14) II		CTF1334	
L 20 L 30					705 706	(A,65,14) I		CTF1334 CTF1384	
L 30					707	(A,64,10) I		CTF1357	
L 30.	2 (A, 140,21) IIIddc	011 133		_	101	(7,04,10)	iddcioi	011 1337	•
L 30		or CTF1556	5	L	708	(A,74,103)	Inductor	CTF1306	
L 31:)	L	709	(A,76,103)		CTF1306	
L 55					710	(A,77,103)		CTF1306	
L 55	, , , , , ,				711	(A,79,103)		CTF1306	
L 55	4 (A,19,95) Inducto	or CTF1334	1	L	712	(A,80,103)	Inductor	CTF1306	Е
L 55	5 (A,21,96) Inducto	or CTF1334	1		713	(A,82,103)	Inductor	CTF1306	
L 55					714	(A,83,103)		CTF1306	
L 55					715	(A,80,101)		CTF1306	
L 55					716	(A,90,103)		CTF1629	
L 55					717	(A,89,100)		CTF1384	
	(,								
L 60					751 750	(A,44,103)		CTF1334	
L 60					752	(B,46,116)		CTF1334	
L 60					753	(B,32,101)		LCTAW680J3225	
L 60					754 755	(A,47,108)		CTF1334	
L 60	5 (A,114,90) Induc	ctor CTF1334	•	L	755	(B,36,117)	inductor	CTF1357	
L 60	6 (A,112,88) Induc	ctor CTF1378	3	L	756	(A,40,109)	Inductor	CTF1357	F
L 60					801	(A,134,90)		CTF1463	
L 60					802	(B,106,89)		CTF1463	
L 60		ctor CTF1378	3	L	803	(A,68,91) I	nductor	CTF1306	
			AVIC-E)1/L	JC				141 _
	5	•	6			7		8	· - · · •

		1 -	2		3	-	4
	Circ	uit Symbol and No.	Part No.		Circu	it Symbol and No.	Part No.
	L 804	(A,62,87) Inductor	CTF1463	R s	50	(B,158,73)	RS1/16S104J
		(A 70.70) Industry	OT14057	R s	51	(A,49,66)	RS1/16SS0R0J
۸	L 805	(A,72,76) Inductor	CTH1257	D /	F0	(4.40.62)	DC4/46CC404 I
Α	L 807	(A,48,35) Inductor	CTH1254	R S		(A,49,62)	RS1/16SS101J
	L 808 L 809	(A,64,34) Inductor (A,59,73) Inductor	CTH1257 CTH1253	R s		(A,49,64) (A,73,49)	RS1/16SS101J RS1/16SS101J
	L 809 L 810	(A,71,56) Inductor	CTH1255 CTH1257	R S		(A,73,49) (A,72,49)	RS1/16SS101J
	L 010	(A,71,56) inductor	C1H1231	R S		(A,72,49) (A,71,49)	RS1/16SS101J
	L 811	(A,60,80) Inductor	CTF1453	IX v	30	(A,71,49)	K31/10331013
_	L 814	(B,73,89) Inductor	CTF1453	R s	57	(A,70,49)	RS1/16SS101J
	L 815	(A,25,35) Inductor	CTH1262	R S		(A,69,49)	RS1/16SS101J
	TH601	(A,124,117) Thermistor	CCX1056	R S		(A,68,49)	RS1/16SS101J
	X 1	(A,139,80) Radiator 30.000MHz		R ((A,67,49)	RS1/16SS101J
		(, , , , , , , , , , , , , , , , , , ,		R 6		(A,66,49)	RS1/16SS101J
	X 2	(B,130,69) Radiator 33.000MHz	CSS1634			,	
	X 3	(B,157,57) Radiator 33.86MHz	CSS1551	R 6	62	(A,65,49)	RS1/16SS101J
В	X 202	(A,122,29) Radiator 14.31818MHz	CSS1632	R 6	63	(A,64,49)	RS1/16SS101J
	FU651	(A,154,126) Fuse 1A	CEK1280	R (64	(A,63,49)	RS1/16SS101J
	∴ FU802	(A,80,55) Fuse 2.5A	CEK1285	R 6	65	(A,62,49)	RS1/16SS101J
				R 6	66	(A,61,49)	RS1/16SS101J
	∴ FU803	(A,81,79) Fuse 1A	CEK1280				
	GY551	(A,48,138) Sensor	CSX1054	R ((A,60,49)	RS1/16SS101J
	GY554	(A,24,138) Sensor	CSX1089	R 6		(A,59,49)	RS1/16SS101J
_				R ((A,58,49)	RS1/16SS101J
	RESISTO	<u>RS</u>		R		(A,56,49)	RS1/16SS101J
				R	71	(B,80,41)	RS1/16SS101J
	R 1	(B,126,42)	RS1/16S0R0J			(=)	
	R 3	(B,126,45)	RS1/16S0R0J	R		(B,80,45)	RS1/16SS101J
С	R 6	(A,117,71)	RS1/16S473J	R		(B,80,38)	RS1/16SS101J
C	R 7	(A,152,56)	RS1/16S220J	R		(B,80,39)	RS1/16SS101J
	R 8	(A,116,78)	RS1/16S473J	R		(B,80,37)	RS1/16SS101J
	_			R	76	(B,80,36)	RS1/16SS101J
	R 10	(A,148,78)	RS1/16S104J	R	77	(B,80,33)	RS1/16SS101J
	R 11	(A,151,78)	RAB4C473J	R		(B,80,34)	RS1/16SS101J
_	R 12	(A,141,75)	RS1/16S105J	R		(A,57,49)	RS1/16SS101J
	R 13	(A,139,75)	RS1/16S151J	R		(A,55,49)	RS1/16SS101J
	R 14	(B,143,42)	RS1/16S0R0J	R		(A,54,49)	RS1/16SS101J
	R 16	(B,143,45)	RS1/16S0R0J	., ,		(, (, 0, 1, 10)	1101/10001010
	R 19	(A,117,76)	RS1/16S473J	R 8	84	(B,80,44)	RS1/16SS562J
	R 20	(A,131,77)	RS1/16S101J	R 8		(B,80,35)	RS1/16SS103J
	R 21	(A,134,74)	RS1/16S101J	R 8		(B,156,71)	RS1/16S104J
D	R 22	(A,132,77)	RS1/16S101J	R 8		(B,128,57)	RS1/16S104J
		(1,102,11)	1101/1001010	R 8		(B,132,54)	RS1/16S0R0J
	R 23	(B,133,68)	RS1/16S105J				
	R 24	(B,133,70)	RS1/16S151J	R 9	90	(B,132,53)	RS1/16S0R0J
	R 25	(A,130,77)	RS1/16S101J	R 9	93	(B,130,52)	RS1/16S153J
	R 26	(A,134,77)	RS1/16S101J	R 9		(B,134,52)	RS1/16S153J
	R 27	(A,130,74)	RS1/16S101J	R 9	95	(B,130,57)	RS1/16S153J
				R 9	96	(B,130,56)	RS1/16S153J
	R 28	(A,133,74)	RS1/16S101J	_		/A	D04/:-5:
	R 29	(A,129,74)	RS1/16S101J	R 9		(A,118,64)	RS1/16S473J
	R 30	(A,128,74)	RS1/16S101J	R 9		(A,155,69)	RS1/16S473J
	R 31	(A,128,77)	RS1/16S101J	R		(B,102,44)	RS1/16S473J
Е	R 32	(B,133,61)	RS1/16S473J			(B,102,29)	RS1/16S473J
		44		K	103	(B,101,67)	RS1/16S473J
	R 33	(A,127,77)	RS1/16S473J	ъ.	101	(A 424 24)	DC4/46C000 I
	R 34	(B,154,58)	RS1/16S105J			(A,131,31)	RS1/16S220J RS1/16S0R0J
	R 35	(A,123,57)	RS1/16S104J			(B,126,41) (B,158,43)	RS1/16S0R0J
	R 36	(A,122,67)	RS1/16S101J			(B,142,52)	RS1/16S471J
	R 37	(A,122,68)	RS1/16S101J			(A,116,64)	RS1/16S473J
-	D 20	(A 122 70)	DC1/16C101 I	K	107	(, ,, i 10,0 1)	1101/1004/30
	R 38	(A,122,70)	RS1/16S101J	R ·	155	(A,113,64)	RS1/16S473J
	R 39 R 40	(A,122,71)	RS1/16S101J RS1/16S470J			(A,115,04) (A,105,74)	RS1/16S473J
	R 40 R 45	(A,121,54) (B 126 64)	RS1/16S470J RS1/16S104J			(A,118,60)	RS1/16S473J
	R 45 R 46	(B,126,64) (B,126,69)	RS1/16S104J			(B,126,65)	RS1/16S473J
_	11 40	(3,120,03)	1.01/1001040			(A,119,69)	RS1/16S473J
F	R 47	(B,156,55)	RS1/16S104J	••		· /	
	R 48	(B,155,73)	RS1/16S104J	R ·	161	(A,105,77)	RS1/16S473J
	R 49	(B,156,73)	RS1/16S104J			(B,131,65)	RS1/16S473J
	10	(-1.001.0)				(A,122,66)	RS1/16S560J
			Δ\	/IC-D1/UC			
_ 1	42	1	2		3	_	4

	5	-	6			7		8		•
(Circuit Symbol an	d No.	Part No.		Cir	cuit Symbol a	nd No.	Part No.		
R 164	(A,112,74)		RS1/16S473J		R 349	(B,156,52)		RS1/16S473J		
R 165	(A,112,74) (A,122,78)		RS1/16S473J		R 350	(B,130,52) (B,147,51)		RS1/16S473J		
100	(A, 122,70)		1004700		1 330	(D, 147, 51)		1004730		
R 166	(A,104,77)		RS1/16S473J		R 356	(A,91,74)		RS1/16S0R0J		Α
R 167	(A,117,72)		RS1/16S473J		R 360	(B,97,69)		RS1/16SS473J		
R 170	(A,117,72) (A,107,74)		RS1/16S473J		R 361	(B,97,56)		RS1/16SS473J		
	· · · · /					· · · · /				
R 171	(A,109,74)		RS1/16S473J		R 362	(B,97,68)		RS1/16SS473J		
R 172	(A,108,74)		RS1/16S473J		R 363	(B,97,57)		RS1/16SS473J		
						(-)				
R 174	(A,122,75)		RS1/16S473J		R 364	(B,97,60)		RS1/16SS473J		I
R 175	(A,122,76)		RS1/16S473J		R 365	(B,97,59)		RS1/16SS473J		
R 176	(A,122,65)		RS1/16S0R0J		R 366	(B,97,58)		RS1/16SS473J		
R 177	(A,117,74)		RS1/16S473J		R 367	(B,99,57)		RS1/16SS473J		
R 178	(A,117,75)		RS1/16S473J		R 368	(B,99,59)		RS1/16SS473J		
R 179	(A,110,71)		RS1/16S473J		R 369	(B,97,67)		RS1/16SS473J		_
R 180	(A,145,74)		RS1/16S101J		R 551	(A,27,126)		RS1/16S103J		В
R 181	(A,114,64)		RS1/16S473J		R 552	(A,23,126)		RS1/10S103J		
R 183	(A,114,71)		RS1/16S473J		R 553	(A,23,128)		RN1/16SE1001D		
R 184	(A,114,67)		RS1/16S473J		R 554	(A,22,130)		RN1/16SE1101D		
	(, , ,					(, , ,				
R 185	(A,112,71)		RS1/16S473J		R 555	(A,19,130)		RN1/16SE1001D		
R 186	(A,113,67)		RS1/16S473J		R 557	(A,39,134)		RS1/10S105J		_
R 187	(A,112,67)		RS1/16S473J		R 558	(A,39,132)		RS1/10S151J		
R 188	(A,112,07) (A,107,77)		RS1/16S473J		R 559	(B,18,72)		RS1/16S104J		
R 189	(A,107,77) (A,108,77)		RS1/16S473J		R 560	(A,19,92)		RS1/16S104J		
K 169	(A, 100,77)		KS1/1054/3J		K 500	(A, 19,92)		KS1/16S104J		
D 400	(4 400 77)		DC4/4CC4701		D 504	(D 00 70)		DC4/4004701		
R 190	(A,109,77)		RS1/16S473J		R 561	(B,20,72)		RS1/16S473J		
R 191	(B,126,72)		RS1/16S473J		R 562	(B,19,70)		RS1/16S563J		_
R 192	(A,113,71)		RS1/16S473J		R 563	(B,19,74)		RS1/16S513J		С
R 193	(A,123,74)		RS1/16S473J		R 564	(B,6,71)		RS1/16S104J		
R 194	(A,146,76)		RS1/16S390J		R 565	(A,25,59)		RS1/16S102J		
R 196	(A,112,77)		RS1/16S473J		R 566	(A,23,59)		RS1/16S102J		
R 198	(A,124,72)		RS1/16SS473J		R 567	(A,18,106)		RS1/16S0R0J		
R 199	(A,117,81)		RS1/16SS473J		R 568	(A,22,62)		RS1/16S513J		
R 201	(A,120,49)		RN1/16SE1502D		R 569	(A,24,63)		RS1/16S513J		
R 202	(A,120,48)		RN1/16SE1202D		R 570	(A,24,61)		RS1/16S564J		
	(' ' ' '					, , ,				
R 210	(A,98,51)		RS1/16S104J		R 571	(B,7,74)		RS1/16S0R0J		
R 211	(A,97,51)		RS1/16S104J		R 572	(A,24,56)		RS1/16S822J		
R 212	(A,90,51)		RS1/16S104J		R 573	(A,23,58)		RS1/16S202J		
R 213	(A,88,51)		RS1/16S104J		R 574	(B,11,35)		RS1/16S203J		D
R 217	(A,121,44)		RS1/16S272J		R 576	(B,8,35)		RS1/16S333J		
1 217	(八, 121, 千千)		1001/1002/20		10 370	(0,0,00)		1001/1000000		
R 220	(A,122,16)		RS1/16S223J		R 577	(A,58,117)		RS1/16S0R0J		
R 221	, , , , , , , , , , , , , , , , , , , ,		RS1/16S105J		R 578			RS1/16S0R0J		
	(A,121,34)					(A,22,93)				
R 222	(A,122,25)		RS1/16S151J		R 579	(A,22,95)		RS1/16S0R0J		
R 224	(A,79,24)		RS1/16S0R0J		R 601	(A,107,88)		RS1/16S0R0J		
R 225	(A,117,17)		RS1/16S104J		R 602	(A,121,117)		RS1/16S1803D		
R 226	(A,118,17)		RS1/16S104J		R 603	(A,126,114)		RS1/16SS1603F		
R 227	(A,79,27)		RS1/16S104J		R 604	(A,126,117)		RS1/16S1002F		
R 228	(A,80,27)		RS1/16S104J		R 605	(A,115,96)		RS1/16S101J		
R 229	(B,115,25)		RS1/16S560J		R 606	(A,127,93)		RS1/16S470J		Е
R 230	(A,80,22)		RS1/16S104J		R 607	(A,107,8)		RS1/16S473J		_
R 232	(A,82,22)		RS1/16S104J		R 608	(A,106,6)		RS1/16S473J		
R 237	(B,112,25)		RS1/16S104J		R 609	(A,103,5)		RS1/16S473J		
R 238	(B,114,25)		RS1/16S330J		R 610	(A,100,5)		RS1/16S473J		
R 240	(A,114,16)		RS1/16S104J		R 611	(A,95,8)		RS1/16S472J		
R 301	(A,135,27)		RS1/16S123J		R 612	(A,125,94)		RS1/16S101J		
11 001	(11,100,21)		1101/1001200			(71,120,01)		1101/1001010		
R 302	(A,135,30)		RS1/16S103J		R 613	(A,123,94)		RS1/16S101J		
R 302	(A, 133,30) (A,137,25)		RS1/16S473J		R 614	(A, 123, 94) (A, 33, 19)		RS1/16S1013		
R 320	(A,106,65)		RS1/16S103J		R 615	(A,34,19)		RS1/16SS0R0J		
R 328	(A,105,67)		RS1/16S101J		R 616	(A,129,90)		RS1/16SS101J		
R 329	(A,110,62)		RS1/16SS821J		R 617	(A,30,17)		RS1/16S101J		F
_	/*		DO11:			/A a:		DO 1/2 = 2.2		
R 330	(A,110,58)		RS1/16SS221J		R 618	(A,33,24)		RS1/16SS101J		
R 331	(A,110,60)		RS1/16SS221J		R 620	(A,50,18)		RS1/16SS0R0J		
R 332	(A,110,59)		RS1/16SS472J		R 622	(A,50,15)		RS1/16SS0R0J		
				AVIC-D	1/UC					
	5		6	AVIC-D	1,00	7		8	143	
_	J	_	J	_			_	5		_

		1 -	2	-	3	4
	Circuit Symbol and No.		Part No.	Circ	cuit Symbol and No.	Part No.
	R 623	(A,48,11)	RS1/16SS0R0J	R 815	(B,68,30)	RS1/16S1003D
	R 624	(A,118,10)	RS1/16S0R0J	R 816	(B,66,30)	RS1/16S6803D
Α	R 625	(A,32,14)	RS1/16SS0R0J	R 817	(B,61,54)	RS1/16S0R0J
	R 626	(A,117,7)	RS1/16SS0R0J	R 818	(B,61,53)	RS1/16S473J
	R 651	(B,151,128)	RS1/16S681J	R 819	(B,61,56)	RS1/16S3300D
	R 652	(B,164,119)	RS1/16S471J	R 820 R 821	(B,58,56)	RS1/16S1002D
	R 653	(B,164,118)	RS1/16S471J	K 021	(B,56,56)	RS1/16S5601D
	R 654	(B,154,128)	RS1/16S681J	R 822	(B,58,57)	RS1/16S331J
_	R 655	(B,149,128)	RS1/16S681J	R 823	(B,57,59)	RS1/16S152J
	R 656 R 657	(B,152,128) (B,147,128)	RS1/16S681J RS1/16S681J	R 824 R 825	(B,57,61)	RS1/16S104J RS1/16S1003D
	R 701	(A,72,17)	RS1/16S0R0J	R 826	(B,57,66) (B,64,76)	RS1/16S0R0J
В	R 702 R 703	(A,71,17) (A,63,14)	RS1/16S0R0J	R 827	(B,62,77)	RS1/16S6800D
_	R 703	(A,63,14) (A,61,7)	RS1/16S0R0J RS1/16S0R0J	R 828 R 829	(B,59,77) (B,56,76)	RS1/16S1002D RS1/16S3301D
	R 705	(A,61,8)	RS1/16S0R0J	R 830	(B,59,76)	RS1/16S331J
	R 706	(A,61,10)	RS1/16S0R0J	R 831	(B,57,74)	RS1/16S332J
	R 707	(A,64,8)	RS1/16S0R0J	R 832	(B,57,71)	RS1/16S104J
	R 708	(B,72,10)	RS1/16S0R0J	R 851	(B,53,30)	RS1/16S184J
	R 709	(A,67,12)	RS1/16S0R0J	R 853	(B,62,79)	RS1/16S100J
	R 710	(A,92,103)	RS1/16S101J	R 854	(B,73,65)	RS1/10S150J
	R 711	(A,80,99)	RS1/16S101J	R 855	(B,73,69)	RS1/10S150J
	R 712	(A,83,101)	RS1/16S101J	R 859	(B,57,26)	RS1/16S100J
_	R 715	(B,77,9)	RS1/16S0R0J	R 860	(B,51,35)	RS1/10S100J
С	R 717	(B,83,6)	RS1/16S0R0J	R 861	(B,61,59)	RS1/16S224J
	R 751 R 752	(B,51,106) (B,51,108)	RS1/16SS101J RS1/16SS101J	R 862 R 867	(B,61,73) (B,15,24)	RS1/16S224J RS1/8S680J
	11 102	(2,01,100)	1101/10001010	1. 007	(2,10,21)	1101/00000
	R 753	(B,51,110)	RS1/16SS101J	R 868	(B,18,11)	RS1/8S151J
_	R 754	(B,51,104)	RS1/16S222J	R 870	(B,21,25)	RS1/16S103J
	R 755 R 756	(B,50,97) (B,38,118)	RS1/16S222J RS1/16S101J	R 871 R 873	(B,67,25) (B,66,25)	RS1/16S473J RS1/16S0R0J
	R 759	(B,35,110)	RS1/16S242J	R 881	(B,55,77)	RS1/16S274J
	R 760	(B,35,107)	RS1/16S242J	R 890	(A,168,106)	RS1/16S0R0J
	R 761	(B,35,105)	RS1/16S222J	R 891	(B,162,106)	RS1/10S472J
_	R 762	(B,35,109)	RS1/16S242J	R 892	(B,159,107)	RS1/16SS223J
D	R 763	(B,34,114)	RS1/16SS0R0J	R 893	(B,154,105)	RS1/16S330J
	R 764	(B,32,109)	RS1/16SS0R0J	R 894	(A,137,140)	RS1/8S0R0J
	R 765	(B,32,105)	RS1/16SS0R0J	R 895	(A,127,131)	RS1/10S0R0J
	R 766	(B,30,97)	RS1/16SS0R0J	R 896	(A,124,131)	RS1/10S0R0J
_	R 767	(B,31,96)	RS1/16S222J	R 897	(A,122,131)	RS1/10S0R0J
	R 768 R 769	(B,31,108) (B,31,112)	RS1/16S182J RS1/16S182J	R 898 R 900	(A,120,131) (B,10,24)	RS1/10S0R0J RS1/8S151J
	103	(D,31,112)	1001020	K 900	(B, 10,24)	1001/001010
	R 770	(B,31,116)	RS1/16S182J	R 901	(B,13,11)	RS1/8S151J
	R 775	(A,37,109)	RS1/16S0R0J	R 902	(B,15,11)	RS1/8S151J
	R 780 R 782	(B,26,117) (B,25,110)	RS1/16S471J RS1/16S471J	R 903	(A,131,124)	RS1/16S0R0J
Е	R 783	(B,25,106)	RS1/16S471J	CAPACIT	ORS	
	D 704	(D 00 00)	DC4/4CC474 I			
	R 784 R 801	(B,26,96) (A,84,61)	RS1/16S471J RS1/16S103J	C 1	(B,128,27)	CKSRYB104K16
	R 802	(A,88,66)	RS1/10S1633	C 2 C 3	(B,127,31) (B,127,33)	CKSRYB104K16 CKSRYB104K16
	R 803	(A,88,68)	RS1/10S360J	C 4	(B,127,38)	CKSRYB104K16
	R 804	(B,68,51)	RS1/16S6803D	C 5	(B,127,50)	CKSRYB104K16
	R 807	(B,44,47)	RS1/8S0R0J	C 6	(A,148,45)	CKSRYB104K16
	R 808	(B,59,38)	RS1/16S0R0J	C 7	(A,152,53)	CKSRYB104K16
	R 809	(B,41,46)	RS1/10S102J	C 8	(A,152,58)	CKSRYB104K16
	R 810	(B,62,38)	RS1/16S101J	C 9	(A,152,61)	CKSRYB104K16
F	R 811	(B,62,37)	RS1/16S1600D	C 10	(A,152,64)	CKSRYB104K16
	R 812	(B,65,37)	RS1/16S5601D	C 11	(A,152,69)	CKSRYB104K16
	R 813	(B,67,38)	RS1/16S1001D	C 12	(B,131,26) 10É F	CCG1192
	R 814	(B,66,35)	RS1/16S331J	/IC D1/LIC		
•	144	1 =	2	/IC-D1/UC	3 =	4

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Ci	rcuit Symbol and No.	Part No.		Circui	t Symbo	ol and No.	Part No.	
C 13	(B,142,34)	CKSRYB104K16	C 9	7 (B,160,36)		CKSRYB224K10	
C 14	(B,142,37)	CKSRYB104K16	C 9	,	B,160,38)		CKSRYB224K10	
C 15	(A,143,44)	CKSRYB104K16	C 1		A,128,27)		CKSRYB104K16	
				,	,			Α
C 16	(A,141,44)	CKSRYB104K16	C 1	,	A,131,20)		CKSRYB104K16	
C 17	(A,143,75)	CKSRYB104K16	C 1	,	A,135,34)		CKSRYB104K16	
C 18	(A,141,77)	CCSRCH100D50	C 1	`	A,144,38)		CKSRYB104K16	
C 19	(A,138,77)	CCSRCH100D50	C 1		A,152,38)		CKSRYB104K16	
C 20	(B,145,27)	CKSRYB104K16	C 1	06 (A,160,38)		CKSRYB104K16	
C 24	(D 444 24)	CKSRYB104K16	C 1	07 /	A 4EC 40)		CKSRYB104K16	
C 21 C 22	(B,144,31) (B,144,33)	CKSRYB104K16	C 1 C 1		A,156,42) A,156,50)		CKSRYB104K16	
C 23	(B,144,38)	CKSRYB104K16	C 1	,	A,156,59)		CKSRYB104K16	
C 24	(B,143,49)	CKSRYB104K16	C 1	`	B,102,51)	10uF	CCG1171	
C 25	(A,136,45)	CKSRYB104K16	C 1		B,102,48)	ΤΟΡΙ	CKSRYB104K16	
0 20	(* 1, 100, 10)	0.10.1.12.10.11.10		(=, . o=, .o,		0.10.1.12.10.11.10	
C 26	(A,137,74)	CKSRYB104K16	C 1	12 (B,102,43)		CKSRYF224Z16	В
C 27	(B,148,26) 10µF	CCG1192	C 1		B,102,36)	10µF	CCG1171	
C 28	(B,153,24)	CKSRYB104K16	C 1		B,102,33)	·	CKSRYB104K16	
C 29	(B,158,36)	CKSRYB104K16	C 1	15 (l	B,102,28)		CKSRYF224Z16	
C 30	(A,154,27)	CKSRYF104Z25	C 1	16 (B,115,73)		CKSRYF104Z25	
C 31	(B,128,67)	CCSRCH9R0D50	C 1		B,103,60)	10μF	CCG1171	•
C 32	(B,128,71)	CCSRCH9R0D50	C 1	,	B,103,59)		CKSRYB104K16	_
C 33	(A,132,45)	CKSRYB104K16	C 1	,	B,115,58)		CKSRYF104Z25	
C 35	(A,132,74)	CKSRYB104K16	C 1	`	B,105,71)		CKSRYF104Z25	
C 36	(A,126,74)	CKSRYB104K16	C 1	21 (B,105,66)		CKSRYF104Z25	
0.00	(0.404.44) 40.5	0004474	0.4	00 (D 400 47\		01/00/15404705	
C 38	(A,131,41) 10µF	CCG1171	C 1	`	B,100,47)		CKSRYF104Z25	С
C 39 C 40	(A,123,50) (A,122,51)	CKSRYB104K16 CKSRYB104K16	C 1	,	B,102,63) B,126,49)		CKSRYF103Z50 CCSRCH101J50	Ü
C 40	(A,122,51) (A,123,59)	CKSRYB104K16	C 1	,	A,162,42)		CKSRYF104Z25	
C 41	(B,136,53)	CKSRYB104K16	C 1	`	A, 162,42) A,162,59)		CKSRYF104Z25	
0 42	(B,130,33)	CRORTBTO4RTO	0 1	20 (/	۸,۱۵۷,۵۵)		CRORTT 104223	
C 43	(A,48,54)	CKSRYB104K16	C 2	01 (A,120,46)		CKSRYB104K16	
C 44	(B,133,65)	CKSRYB104K16	C 2	,	A,115,51)		CKSRYB104K16	
C 46	(A,49,73)	CKSRYB104K16	C 2	,	A,113,51)		CKSRYB104K16	_
C 47	(B,141,74)	CKSRYB104K16	C 2	,	A,118,46)		CKSRYB104K16	
C 49	(B,139,53)	CKSRYB104K16	C 2		A,107,51)		CKSRYB104K16	
C 51	(A,144,44)	CKSRYB224K10	C 2		A,102,50)		CKSRYB104K16	
C 54	(B,80,42)	CCSRCH121J50	C 2	,	A,96,51)		CKSRYB104K16	Б
C 55	(B,144,53)	CKSRYB104K16	C 2	,	A,92,51)		CKSRYB104K16	D
C 56	(A,39,51)	CKSRYB104K16	C 2		A,83,46)		CKSRYB104K16	
C 57	(B,147,53)	CKSRYB104K16	C 2	11 (A,118,43)		CKSRYB104K16	
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C 58 C 60	(A,48,51) (B,149,74)	CKSRYB104K16 CKSRYB104K16	C 2 C 2		A,118,41) A,119,41)		CKSRYB104K16 CKSRYB104K16	
C 63	(B,154,55)	CKSRYB104K16	C 2		A,83,44)		CKSRYB104K16	
C 64	(B,154,61)	CKSRYB104K16	C 2		A,83,41)		CKSRYB104K16	
C 66	(B,154,63)	CKSRYB104K16	C 2		A,83,39)		CKSRYB104K16	
0 00	(2,101,00)	0.10.1.12.10.11.10	V -		.,00,00)		0.10.1.12.10.11.10	
C 67	(B,156,63) 10µF	CCG1192	C 2	20 (/	A,121,41)	10μF	CCG1171	
C 68	(A,126,44) 22µF	CCG1178	C 2		A,118,38)	- 1	CKSRYB104K16	
C 69	(A,126,42) 22µF	CCG1178	C 2		A,118,35)		CKSRYB104K16	_
C 70	(A,126,38) 22µF	CCG1178	C 2	23 (A,120,17)		CKSRYB224K10	Е
C 71	(B,125,69)	CKSRYF103Z50	C 2	24 (A,118,33)		CKSRYB104K16	
C 72	(B,159,60)	CKSRYF103Z50	C 2		A,119,38)		CKSRYB104K16	
C 73	(B,157,60)	CKSRYF104Z25	C 2		A,83,38)		CKSRYB104K16	
C 74	(B,154,70)	CKSRYF104Z25	C 2	,	A,83,33)		CKSRYB104K16	_
C 75	(A,152,26)	CKSRYF104Z25	C 2		A,123,34)		CCSRCH150J50	
C 76	(B,127,36)	CKSRYF103Z50	C 2	31 (A,123,25)		CCSRCH120J50	
C 77	(B,135,26)	CKSRYF103Z50	C 2	32 (A,118,30)		CKSRYB104K16	
C 78	(B,142,30)	CKSRYF103Z50	C 2		A,118,27)		CKSRYB104K16	
C 79	(B,158,38)	CKSRYB103K50	C 2		A,83,29)		CKSRYB104K16	
C 80	(B,151,26)	CKSRYB103K50	C 2	,	A,84,27)		CKSRYB104K16	_
C 81	(B,143,48)	CKSRYB224K10	C 2		A,118,24)		CKSRYB104K16	F
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C 82	(B,158,31)	CKSRYB103K50	C 2	38 (/	A,119,22)		CKSRYB104K16	
C 96	(B,160,31)	CKSRYB224K10	C 2		A,84,26)		CKSRYB104K16	
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C 241 (A,8421) CKSRYBIO4K16 C 068 (A,97.8) CKSRYBIO5K50 C 242 (A,112.7) CKSRYBIO4K16 C 669 (A,111.7) CKSRYBIO4K16 C 669 (A,111.7) CKSRYBIO4K16 C 610 (A,111.9) CCSSCHIDLISO C 244 (A,105.17) CKSRYBIO4K16 C 611 (A,130.19) CCSSCHIDLISO CCSSCHI		Circ	cuit Symbol and No.	Part No.	<u>C</u>	ircuit Symbol and No.	Part No.
C 243 (A.108.17) CKSRYB104K16 C 611 (A.131.94) CCSRCH101JS0 C 246 (A.106.17) CKSRYB104K16 C 611 (A.130.01) CCSRCH101JS0 CSRCH471JS0 C 246 (A.106.17) CKSRYB104K16 C 611 (A.130.01) CKSRYB104K16 C 622 (A.140.116) CKSRYB104K16 C 622 (A.140.116) CKSRYB104K16 C 622 (A.140.116) CKSRYB104K16 C 624 (A.106.17) CKSRYB104K16 C 625 (A.140.116) CKSRYB104K16 C 625 (A.140.116) CKSRYB104K16 C 625 (A.140.116) CKSRYB104K16 C 626 (A.150.116) CKSRYB10		C 241	(A,84,21)	CKSRYB104K16	C 608	(A,97,8)	CKSRYB103K50
C 246 (A.102.17) CKSRYB104R16 C 661 (A.148,120) CKSSYB105R16 C 247 (A.94.17) CKSRYB104R16 C 663 (A.148,116) CKSSYB105R16 C 663 (A.148,116) CKSSYB105R10 C 626 (A.148,116) CKSSYB105R20 C 707 (A.88,110) CKSSYB105R10	Α	C 243	(A,108,17)	CKSRYB104K16	C 610	(A,131,94)	CCSRCH101J50
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C 248	_	C 247	(A,94,17)	CKSRYB104K16	C 653	(A,149,116)	CKSRYB105K10
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C 559 (A,18,97) CKSRYF104Z25 C 808 (A,90,90) CEVW220M6R3 C 560 (A,20,100) CKSRYF104Z25 C 809 (B,97,99) 10μF CCG1171 C 561 (A,18,103) CKSRYF104Z25 C 810 (B,76,91) CKSRYF104Z25 C 562 (A,19,53) CKSRYB104K16 C 811 (A,97,91) CEVW101M6R3 C 563 (A,20,51) CKSRYB104K25 C 812 (B,103,87) CKSRYF104Z25 C 564 (B,17,35) CKSRYB103K50 C 813 (A,66,91) CKSRYB103K50 C 566 (B,15,35) CKSRYB823K16 C 814 (B,76,88) CKSRYB103K50 C 814 (B,76,88) CKSRYB103K50 C 815 (A,61,90) CKSRYB103K50 C 568 (B,26,128) CKSRYB103K50 C 816 (A,63,90) CKSRYB103K50 C 602 (A,118,115) CKSRYB104K16 C 816 (A,63,90) CKSRYB103K50 C 602 (A,118,115) CKSSYF104Z16 C 817 (B,103,95) CKSRYB103K50 CKSRYB103K50 CKSRYB104K10 C 818 (B,65,38) CKSRYB103K50 CKSRYB104K10 C 819 (B,66,33) CCSRCH101J50 CKSRYB104K10 C 819 (B,66,33) CCSRCH101J50 CKSRYB103K50 CKSRYB103K50 CKSRYB104K10 C 819 (B,66,33) CCSRCH101J50 CKSRYB103K50							
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C 562 (A,19,53) CKSRYB104K16 C 811 (A,97,91) CEVW101M6R3 C 563 (A,20,51) CKSRYB104K25 C 812 (B,103,87) CKSRYF104Z25 C 564 (B,17,35) CKSRYB103K50 C 813 (A,66,91) CKSRYB103K50 C 566 (B,15,35) CKSRYB823K16 C 814 (B,76,88) CKSRYB103K50 C 567 (B,22,128) CCSRCH102J50 C 815 (A,61,90) CKSRYB103K50 C 568 (B,26,128) CKSRYB104K16 C 816 (A,63,90) CKSRYB103K50 C 602 (A,118,115) CKSSYF104Z16 C 817 (B,103,95) CKSRYB103K50 F C 603 (A,120,115) CKSSYF104Z16 C 818 (B,65,38) CKSRYB473K50 C 604 (A,119,117) CKSSYB104K10 C 819 (B,66,33) CCSRCH101J50 C 605 (A,127,95) CCSRCH101J50 C 820 (B,69,34) CKSRYB103K50 AVIC-D1/UC			,			,	
C 563 (A,20,51) CKSRYB104K25 C 812 (B,103,87) CKSRYF104Z25 C 564 (B,17,35) CKSRYB103K50 C 813 (A,66,91) CKSRYB103K50 C 566 (B,15,35) CKSRYB823K16 C 814 (B,76,88) CKSRYB103K50 C 567 (B,22,128) CCSRCH102J50 C 815 (A,61,90) CKSRYB103K50 C 568 (B,26,128) CKSRYB104K16 C 816 (A,63,90) CKSRYB103K50 C 602 (A,118,115) CKSSYF104Z16 C 817 (B,103,95) CKSRYF104Z25 F C 603 (A,120,115) CKSSYF104Z16 C 818 (B,65,38) CKSRYB473K50 C 604 (A,119,117) CKSSYB104K10 C 819 (B,66,33) CCSRCH101J50 C 605 (A,127,95) CCSRCH101J50 C 820 (B,69,34) CKSRYB224K16 C 606 (A,112,96) CCSRCH471J50 C 821 (B,65,40) CKSRYB103K50							
C 564 (B,17,35) CKSRYB103K50 C 813 (A,66,91) CKSRYB103K50 CKSRYB823K16 C 814 (B,76,88) CKSRYB103K50 CKSRYB103K50 CKSRYB103K50 CKSRYB103K50 CKSRYB103K50 CKSRYB103K50 CKSRYB103K50 CKSRYB103K50 C 567 (B,22,128) CCSRCH102J50 C 815 (A,61,90) CKSRYF104Z25 C 568 (B,26,128) CKSRYB104K16 C 816 (A,63,90) CKSRYB103K50 C 602 (A,118,115) CKSSYF104Z16 C 817 (B,103,95) CKSRYF104Z25 C 603 (A,120,115) CKSSYF104Z16 C 818 (B,65,38) CKSRYB473K50 C 604 (A,119,117) CKSSYB104K10 C 819 (B,66,33) CCSRCH101J50 C 606 (A,127,95) CCSRCH101J50 C 820 (B,69,34) CKSRYB103K50 CKSRYB103K50 CKSRYB103K50 CKSRYB103K50 CKSRYB103K50 CKSRYB103K50 CKSRYB103K50 CKSRYB103K50							
C 566 (B,15,35) CKSRYB823K16 C 814 (B,76,88) CKSRYB103K50 C 567 (B,22,128) CCSRCH102J50 C 815 (A,61,90) CKSRYF104Z25 C 568 (B,26,128) CKSRYB104K16 C 816 (A,63,90) CKSRYB103K50 C 602 (A,118,115) CKSSYF104Z16 C 817 (B,103,95) CKSRYF104Z25 C 603 (A,120,115) CKSSYF104Z16 C 818 (B,65,38) CKSRYB473K50 C 604 (A,119,117) CKSSYB104K10 C 819 (B,66,33) CCSRCH101J50 C 605 (A,127,95) CCSRCH101J50 C 820 (B,69,34) CKSRYB224K16 C 606 (A,112,96) CCSRCH471J50 C 821 (B,65,40) CKSRYB103K50						,	
C 568 (B,26,128) CKSRYB104K16 C 816 (A,63,90) CKSRYB103K50 C 602 (A,118,115) CKSSYF104Z16 C 817 (B,103,95) CKSRYF104Z25 C 603 (A,120,115) CKSSYF104Z16 C 818 (B,65,38) CKSRYB473K50 C 604 (A,119,117) CKSSYB104K10 C 819 (B,66,33) CCSRCH101J50 C 605 (A,127,95) CCSRCH101J50 C 820 (B,69,34) CKSRYB224K16 C 606 (A,112,96) CCSRCH471J50 C 821 (B,65,40) CKSRYB103K50 CKSRYB103K50	_						
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F C 603 (A,120,115) CKSSYF104Z16 C 818 (B,65,38) CKSRYB473K50 CCSRCH101J50 C 819 (B,66,33) CCSRCH101J50 C 605 (A,127,95) CCSRCH101J50 C 820 (B,69,34) CKSRYB224K16 C 606 (A,112,96) CCSRCH471J50 C 821 (B,65,40) CKSRYB103K50 AVIC-D1/UC							
C 604 (A,119,117) CKSSYB104K10 C 819 (B,66,33) CCSRCH101J50 C 605 (A,127,95) CCSRCH101J50 C 820 (B,69,34) CKSRYB224K16 C 606 (A,112,96) CCSRCH471J50 C 821 (B,65,40) CKSRYB103K50 AVIC-D1/UC	_		,				
C 606 (A,112,96) CCSRCH471J50 C 821 (B,65,40) CKSRYB103K50 AVIC-D1/UC	F		, , ,				
AVIC-D1/UC							
			(A,112,96)			(B,65,40)	CKSRYB103K50
	•	146	1 -		G-D1/0C	3	4

	5	6	-	7	8	
	cuit Symbol and No.	Part No.	<u>Ci</u>	rcuit Symbol and No.	Part No.	
C 822 C 823	(B,68,32) 15pF	CCG1215	MICOL	LANGOUG		
C 823 C 824	(B,64,26) (B,61,57)	CKSRYB105K10 CKSRYB822K50	MISCEL	<u>LANEOUS</u>		
02.	(5,01,01)	OKOKI BOZZKOO	IC 401	(A,25,17) IC	UPC2749T	
825	(B,59,59)	CKSRYB152K50	IC 402	(B,20,28) IC	UPB1027GS	
826	(B,57,60)	CKSRYB563K16	IC 441	(A,32,30) IC	NJM2100V	
827	(B,57,63)	CKSRYB103K50	IC 461	(B,29,10) IC	ADC12H034CIMSAS1	
828	(B,57,64) 15pF	CCG1215	IC 501	(B,50,26) IC	PD3390A	
829	(B,62,76)	CKSRYB822K50		(), -, -		
			IC 502	(B,48,9) IC	PD6519A	
830	(B,59,73)	CKSRYB152K50	IC 503	(A,49,29) IC	M5M5V216ATP-70HI	
C 831	(B,57,73)	CKSRYB563K16	IC 504	(A,31,14) IC	MAX6364PUT29	
832	(B,57,67)	CKSRYB105K10	Q 441	(A,32,22) Transistor	2SB1132	
C 833 C 834	(B,57,70)	CKSRYB103K50 CCG1171	D 401	(B,11,28) Diode	1SV314	
5 034	(B,92,88) 10µF	CCGTTT	D 504	(D.05.00), Disals	DD754\/40	
835	(A,86,79)	CKSRYB104K16	D 501	(B,35,30) Diode	RB751V40	
836	(A,139,89)	CKSRYB104K16	L 401 L 402	(B,11,29) Inductor (B,26,22) Inductor	CTF1549	
837	(A,89,56)	CKSRYB104K16	L 402 L 403	(B,26,22) Inductor (B,27,26) Inductor	CTF1486 CTF1486	
844	(B,53,32)	CKSRYF104Z25	L 403	(A,21,23) Inductor	LCSA3N3R1608	
845	(B,53,26)	CKSYB475K10	L 404	(A, £ 1, £0) INUUGIOI	LOOKSINGIN 1000	
	• • • •		L 405	(B,13,24) Inductor	LCYB22NJ1608	
846	(B,53,34)	CKSRYF474Z16	L 406	(B,15,20) Inductor	LCYB22NJ1608	
847	(B,65,80) 4.7µF	CCG1111	L 407	(A,19,32) Inductor	CTF1410	
848	(B,64,60)	CKSRYF474Z16	L 408	(B,26,32) Inductor	CTF1556	
849	(B,65,72)	CKSRYF474Z16	L 409	(B,18,12) Inductor	LCYC1R0K2125	
853	(A,56,35) 220µF/10V	CCH1409				
_			L 410	(B,26,17) Inductor	CTF1547	
854	(B,61,25) 4.7µF	CCG1111	L 412	(A,25,27) Inductor	CTF1547	
855	(B,61,60)	CKSRYF104Z25	L 413	(A,25,26) Inductor	CTF1547	
856	(A,60,64) 10μF	CCG1173	L 414	(A,25,32) Inductor	CTF1547	
C 857 C 858	(B,65,52) (B,61,74)	CKSYB475K10 CKSRYF104Z25	L 415	(A,26,29) Inductor	CTF1547	
000	(B,01,74)	CK3K1F104Z25	1 440	(A 00 00) Laskastas	OTE4547	
859	(A,63,64) 10µF	CCG1173	L 416	(A,26,28) Inductor	CTF1547	
C 860	(A,63,59) 4.7µF	CCG1111	L 417 L 418	(B,25,20) Inductor (A,14,33) Inductor	CTF1547 CTF1410	
867	(B,45,26) 4.7µF	CCG1111	L 441	(B,32,20) Inductor	CTF1410 CTF1410	
2 868	(B,49,25) 4.7µF	CCG1111	L 442	(A,29,25) Inductor	CTF1410	
869	(A,57,27) 10µF	CCG1173	L 772	(A,23,23) Inductor	011 1410	
	•		L 461	(A,28,9) Inductor	CTF1410	
870	(A,54,27) 10µF	CCG1173	L 462	(A,31,8) Inductor	CTF1410	
C 871	(B,45,29) 4.7µF	CCG1111	L 467	(B,33,17) Inductor	CTF1547	
872	(A,60,59) 4.7μF	CCG1111	L 468	(B,32,17) Inductor	CTF1547	
873	(A,80,62) 330µF/6.3V	CCH1366	L 469	(A,32,11) Inductor	CTF1410	
874	(B,68,76) 4.7µF	CCG1111				
. 075	(A E0 00) 40 E	0004470	L 501	(B,38,17) Inductor	CTF1410	
C 875	(A,56,63) 10µF	CCG1173	L 502	(B,36,32) Inductor	CTF1410	
876	(A,56,60) 10μF	CCG1173	L 503	(B,59,6) Inductor	CTF1410	
877 878	(A,64,80) (A,81,73) 330µF/6.3V	CKSRYB104K25 CCH1366	L 504	(A,38,33) Inductor	CTF1410	
878	(A,81,73) 330µF/6.3V (B,68,58) 4.7µF	CCG1111	L 531	(A,53,18) Inductor	CTF1410	
019	(D,00,00) 4.7 µ1	0001111	V 404	(A 14 27) TOVO 40 2005411	- CM/V2204	
881	(A,11,62)	CEAT472M16(P35)	X 401	(A,14,27) TCXO 16.368MH		
882	(A,11,44)	CEAT472M16(P35)	X 501 X 502	(A,37,26) Radiator 32.768kH. (B,36,26) Radiator 20.00MHz		
890	(A,166,100)	CEVW101M16	7 502 F 401	(A,23,23) Filter	CTF1548	
891	(A,150,94)	CEVW101M16	i 4 01	(A,20,20) I IIIOI	J11 10 1 0	
892	(B,159,94)	CKSRYF104Z25	RESIST	ORS		
	•		INEGIOI	<u> </u>		
893	(A,158,94)	CEVW101M16	R 401	(B,11,26)	RS1/16SS472J	
894	(B,24,11)	CKSRYF104Z25	R 402	(B,12,30)	RS1/16SS472J	
895	(A,13,18)	CEAT221M25(P35)	R 403	(B,14,32)	RS1/16SS122J	
896	(B,21,27)	CKSRYF104Z25	R 404	(B,14,30)	RS1/16SS622J	
897	(A,13,29) 2200µF/16V	CCH1659(P35)	R 405	(A,23,26)	RS1/16SS100J	
2 000	(A 150 107)	CE\/\\/404\\46				
898	(A,150,107)	CEVW101M16	R 406	(B,27,29)	RS1/16S271J	
899	(A,158,107)	CEVW101M16	R 407	(B,25,18)	RS1/16S2R2J	
3			R 441	(A,30,27)	RN1/16SC10R0D	
В			R 442	(B,32,24)	RN1/16SE1501D	
	umber:CWX3141		R 443	(B,31,24)	RN1/16SE2402D	
			D 444	(D 24 27)	DN14/460E0000D	
mit Na	ame:GPS Unit		R 444	(B,31,27)	RN1/16SE3302D	
			A)/IC D4/I-IC			
			AVIC-D1/UC		4	4-7

5 AVIC-D1/UC 7 B

			2		3	-
	Circ	cuit Symbol and No.	Part No.	Circ	uit Symbol and No.	Part No.
	R 445	(B,31,33)	RN1/16SE4702D	C 416	(A,24,28)	CKSSYB104K10
	R 446	(B,30,33)	RN1/16SE4702D	C 417	(B,24,22)	CKSSYB104K10
_	R 447	(A,33,25)	RS1/16S432J	C 418	(A,21,32)	CKSSYB102K50
Α	R 448	(B,32,30)	RN1/16SE1002D	C 419	(B,39,32)	CKSSYB104K10
	_			C 420	(A,14,32)	CKSSYB104K10
	R 449	(B,33,32)	RN1/16SE2202D			
	R 450	(B,31,32)	RN1/16SE3302D	C 421	(B,26,27)	CKSSYB102K50
	R 451	(A,29,32)	RS1/16S103J	C 422	(B,25,26)	CKSSYB103K16
	R 452	(B,33,27)	RS1/16SS102J	C 423	(B,26,24)	CKSSYB104K10
	R 454	(B,33,26)	RS1/16SS102J	C 424	(B,27,22)	CCSRCH102J50
-				C 425	(B,29,24)	CCSRCH271J50
	R 460	(B,22,13)	RS1/16S0R0J			
	R 461	(A,37,5)	RS1/16SS102J	C 426	(B,28,26)	CCSRCH102J50
	R 462	(A,38,9)	RS1/16SS102J	C 427	(B,25,25)	CKSSYB104K10
	R 463	(B,35,12)	RAB4CQ102J	C 428	(B,14,24)	CKSSYB103K16
	R 464	(A,35,12)	RAB4CQ333J	C 429	(B,12,24)	CCSRCH301J50
В		(), /		C 430	(B,12,22)	CCSSCH120J50
	R 465	(A,39,8)	RS1/16SS102J		(-, -,,	
	R 470	(B,35,7)	RAB4CQ471J	C 431	(B,14,20)	CCSRCH301J50
	R 471	(B,35,4)	RAB4CQ104J	C 432	(B,16,22)	CKSSYB103K16
	R 477	(B,31,17)	RS1/16SS222J	C 433	(B,19,10)	CCSRCH101J50
	R 478	(B,30,16)	RS1/16SS222J	C 434	(B,18,14)	CKSSYB102K50
	11 470	(0,30,10)	1101/10002220	C 435	(B,19,14)	CKSSYB103K16
	R 479	(B,28,16)	RS1/16SS222J	U 433	(B, 19, 14)	CNOSTBTOSKTO
			RS1/16SS332J	C 426	(D 24 22)	CKCC/D404K40
	R 480	(B,28,17)		C 436	(B,31,22)	CKSSYB104K10
	R 481	(B,30,17)	RS1/16SS332J	C 441	(B,31,28)	CKSRYB104K16
	R 482	(A,38,6)	RS1/16SS223J	C 442	(A,30,29)	CCSRCH101J50
	R 483	(A,38,5)	RS1/16SS473J	C 443	(A,30,32)	CKSRYB104K16
0		(=)		C 444	(B,32,22)	CKSSYB103K16
С	R 501	(B,39,27)	RS1/16SS0R0J			
	R 502	(B,38,29)	RS1/16SS102J	C 445	(A,29,30)	CKSSYB104K10
	R 503	(B,38,26)	RS1/16SS154J	C 461	(A,28,5) 22µF/6.3V	CCH1408
	R 508	(B,60,14)	RS1/16SS103J	C 462	(A,31,10)	CKSRYB104K16
	R 509	(B,34,15)	RS1/16SS473J	C 463	(A,27,9)	CKSRYB104K16
		(4.00 =)	50///500/55/	C 464	(B,31,5)	CKSSYB103K16
	R 510	(A,38,7)	RS1/16SS102J	0.40=	(5.24.4)	01/00//01/00//10
	R 511	(A,34,19)	RS1/16SS103J	C 465	(B,31,4)	CKSSYB103K16
	R 512	(B,39,31)	RS1/16SS473J	C 466	(B,32,4)	CKSSYB103K16
	R 513	(B,60,16)	RS1/16SS103J	C 467	(B,33,4)	CKSSYB103K16
	R 514	(B,39,29)	RS1/16SS473J	C 468	(A,30,11)	CKSSYB104K10
	_			C 469	(B,27,4)	CSZS100M10
D	R 515	(A,30,12)	RS1/16SS473J			
D	R 517	(B,39,23)	RS1/16SS103J	C 470	(B,26,16)	CKSSYB104K10
	R 519	(B,39,21)	RS1/16SS473J	C 471	(B,37,6)	CCSSCH101J50
	R 521	(B,37,29)	RS1/16SS473J	C 501	(B,39,19)	CKSSYB104K10
	R 533	(A,40,19)	RS1/16SS103J	C 502	(B,36,22)	CCSRCH150J50
				C 503	(B,38,22)	CCSRCH150J50
	R 534	(A,41,19)	RS1/16SS103J			
	R 535	(A,38,13)	RS1/16SS103J	C 504	(B,40,17)	CKSSYB104K10
	R 536	(A,39,19)	RS1/16SS0R0J	C 506	(B,60,19)	CKSSYB104K10
				C 507	(B,60,21)	CKSSYB104K10
	CAPACIT	<u>'ORS</u>		C 508	(B,60,26)	CKSSYB104K10
				C 509	(B,60,30)	CKSSYB104K10
	C 401	(A,25,13)	CCSRCH100D50			
Е	C 402	(A,24,20)	CCSSCH101J50	C 511	(B,40,34)	CKSSYB104K10
_	C 403	(A,27,16)	CKSSYB104K10	C 512	(B,38,31)	CKSSYB104K10
	C 404	(A,20,24)	CCSSCH101J50	C 514	(A,31,17)	CSZS100M6R3
	C 405	(B,14,28)	CCSRUJ220J50	C 515	(B,39,24)	CKSSYB104K10
		, , ,		C 516	(B,59,11)	CKSSYB104K10
	C 406	(B,14,29)	CCSRUJ220J50			
	C 407	(B,13,32)	CKSSYB333K16	C 517	(A,51,21)	CKSSYB104K10
	C 408	(B,12,32)	CKSSYB182K50	C 518	(A,39,32)	CKSSYB104K10
	C 409	(A,21,29)	CSZS100M6R3			
	C 410	(B,27,32)	CKSSYB103K16	G		
					614744646	
	C 411	(A,21,27)	CKSSYB102K50	Unit Nu	mber:CWM9918	
	C 412	(A,21,28)	CKSSYB102K50	Unit Na	me:System Unit	
F	C 413	(A,20,31)	CKSSYB104K10	J 144		
	C 414	(A,23,32)	CKSSYB104K10	MICOELL	ANEOUS	
	C 415	(A,24,30)	CKSSYB104K10	WIISCELL	<u>ANEOUS</u>	
				10 4004	(D 12 EE) IC	N. IMO407\/
			_	IC 1001	(B,13,55) IC	NJM2137V
	1/12		AVI	C-D1/UC		

AVIC-D1/UC 3

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Circ	cuit Symbol and No.	Part No.	<u>Ci</u>	rcuit Symbol and No.	Part No.	
IC 1002	(A,25,70) IC	NJM2137V	Q 4204	(B,10,90) Transistor	DTC323TU	
IC 1003	(B,13,67) IC	NJM2137V	Q 4205	(B,11,95) Transistor	DTC323TU	
IC 1201	(B,23,62) IC	NJM2235V	Q 4206	(B,14,84) Transistor	DTC323TU	^
IC 1202	(A,16,50) IC	NJM2235V	Q 4207	(B,15,88) Transistor	DTC323TU	Α
IC 1204	(A 17 62) IC	N IMOEG1E1	Q 4208	(P.10.94) Transistor	DTC222TU	
IC 1204 IC 1501	(A,17,63) IC (B,86,18) IC	NJM2561F1 TC74VHCT08AFTS1	Q 4208 Q 4209	(B,10,84) Transistor (A,88,98) Transistor	DTC323TU DTC124EU	
IC 1501	(A,84,31) IC	PE5478A	Q 4209 Q 4210	(A,83,97) Transistor	UMD2N	
IC 1502	(A,63,42) IC	TC7SH08FUS1	Q 4210 Q 4211	(A,81,89) Transistor	UMD2N	
IC 1505	(A,93,57) IC	TC7S04FU	Q 4212	(A,92,100) Transistor	DTC124EU	_
	(,,==,==, , ==			(,,=,, , , , , , , , , , , , , , , , ,		
IC 1506	(B,102,49) IC	S-80840CNMC-B8Z	Q 4500	(B,39,60) Transistor	UMD2N	
IC 1507	(A,96,57) IC	TC7SH00FUS1	Q 4501	(B,50,61) Transistor	DTC323TU	
IC 1601	(B,56,22) IC	HA12240FP	Q 4502	(B,44,61) Transistor	DTC323TU	
IC 1801	(B,44,76) IC	TPD1018F	Q 4503	(B,54,61) Transistor	UMD2N	
IC 1840	(A,127,67) IC	S-812C50AUA-C3E	D 1401	(A,22,109) Diode	UMZ6R8N	Б
10.1000	(4, 457, 55), 45		5 / / 6	(1.00.400) 5		В
IC 1900	(A,135,82) IC	M5237ML	D 1402	(A,22,105) Diode	UMZ6R8N	
IC 1902	(B,128,78) IC	S-812C50AUA-C3E	D 1403	(A,26,109) Diode	UMZ6R8N	
IC 4001	(A,40,46) IC	PML009A	D 1404 D 1405	(A,14,109) Diode	UMZ6R8N	
IC 4100 IC 4200	(B,43,67) IC (A,80,116) IC	NJM2058V PAL007B	D 1405 D 1406	(A,29,109) Diode	UMZ6R8N UMZ6R8N	
10 4200	(A,60,116) IC	PALUU/ D	D 1400	(A,16,104) Diode	UIVIZOROIN	
IC 4301	(A,147,45) IC	NJM2391DL1-33	D 1407	(A,26,105) Diode	UMZ6R8N	
IC 4401	(B,43,38) IC	TA2050FS1	D 1408	(A,18,109) Diode	UMZ6R8N	
IC 4500	(B,48,54) IC	NJM2068V	D 1409	(A,20,103) Diode	UMZ6R8N	
Q 1201	(B,23,46) Transistor	2SC4081	D 1450	(B,102,108) Diode	UDZS5R6(B)	
Q 1501	(A,61,21) Transistor	IMD2A	D 1451	(B,102,102) Diode	UDZS5R6(B)	
	(, , ,			, ,	()	
Q 1502	(B,94,32) Transistor	2SC4081	D 1501	(B,95,52) Diode	1SS355	С
Q 1503	(B,95,48) Transistor	UMD2N	D 1651	(A,53,16) Diode	UDZS5R6(B)	
Q 1601	(B,92,44) Transistor	2SA1576	D 1652	(A,50,16) Diode	UDZS5R6(B)	
Q 1602	(B,95,40) Transistor	DTC124EU	D 1801	(A,47,86) Diode	S1G-6904G2P	
Q 1802	(A,64,37) Transistor	2SA1576	D 1802	(A,46,99) Diode	1SS355	
0.4040	(A 22 24) =	D=0.4.4=11	D 1000	(1. (2. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.		
Q 1810	(A,62,31) Transistor	DTC114EU	D 1803	(A,45,95) Diode	1SS355	
Q 1820	(A,60,38) Transistor	DTC114EU	D 1804	(A,47,89) Diode	PZT27(B)	
Q 1821	(A,63,27) Transistor	2SA1576	D 1805	(A,61,100) Diode	S1G-6904G2P	
Q 1841 Q 1842	(A,137,65) Transistor (B,89,82) Transistor	2SB1184F5 2SD1767	D 1806 D 1810	(B,55,116) Diode	PZT27(B) 1SS355	
Q 1042	(B,09,02) Harisistoi	2301707	D 1010	(A,59,32) Diode	133333	
Q 1850	(B,131,69) Transistor	UMD2N	D 1811	(A,59,30) Diode	RB500V-40	
Q 1851	(B,120,68) Transistor	2SD1760F5	D 1812	(A,51,93) Diode	UDZS18(B)	D
Q 1860	(B,81,78) Transistor	IMX1	D 1813	(A,49,92) Diode	UDZS18(B)	
Q 1861	(B,93,15) Transistor	2SC4081	D 1814	(A,59,29) Diode	UDZS6R8(B)	
Q 1881	(B,129,97) Transistor	DTC114EU	D 1815	(A,54,100) Diode	S1G-6904G2P	
Q 1882	(B,129,91) Transistor	2SA1587	D 1820	(A,45,99) Diode	1SS400	
Q 1883	(B,135,94) Transistor	IMX1	D 1821	(A,45,92) Diode	DAN202U	
Q 1884	(B,142,83) Transistor	2SD1760F5	D 1822	(A,28,98) Diode	5KP22A	
Q 1885	(B,135,100) Transistor	DTC114EU	D 1841	(B,95,80) Diode	UDZS20(B)	
Q 1900	(A,121,87) Transistor	2SB1185	D 4050	(D. 107.71) D: 1	11711000(04)	
0.4004	(A 440 02) Transistan	LIMANANI	D 1850	(B,127,71) Diode	HZU6R2(B1)	
Q 1901	(A,118,83) Transistor	UMX1N	D 1860	(B,71,87) Diode	HZU7R5(B3)	
Q 1902	(A,134,87) Transistor (A,142,71) Transistor	2SB1185 2SB1260	D 1861 D 1862	(B,79,84) Diode (B,88,78) Diode	KS926S2 RB500V-40	E
Q 1903 Q 1904	(A,139,76) Transistor	DTC114EU	D 1863	(B,88,76) Diode	UDZS18(B)	
Q 1904 Q 1920	(B,141,24) Transistor	2SB1260	D 1003	(B,00,70) Diode	0D2310(B)	
Q 1020	(0,141,24) Hansistor	2001200	D 1864	(B,77,79) Diode	RB500V-40	
Q 1922	(A,162,8) Transistor	2SD2396	D 1865	(B,96,16) Diode	HZU6R8(B2)	
Q 1923	(A,160,10) Transistor	UMF23N	D 1866	(A,106,89) Diode	S1G-6904G2P	
Q 1924	(B,133,25) Transistor	DTC114EU	D 1867	(A,107,85) Diode	RB500V-40	
Q 1940	(B,135,55) Transistor	DTC144EU	D 1880	(B,137,92) Diode	RB500V-40	
Q 1941	(B,139,58) Transistor	2SA1577				
_	_		D 1881	(B,139,92) Diode	RB500V-40	
Q 1942	(B,145,55) Transistor	2SD1760F5	D 1882	(B,136,102) Diode	HZU9R1(B1)	
Q 1943	(B,148,47) Transistor	UMD2N	D 1883	(B,141,91) Diode	HZU13(B1)	
Q 1960	(A,59,42) Transistor	2SA1576	D 1900	(A,124,82) Diode	HZU8R2(B1)	F
Q 4201	(A,85,90) Transistor	2SC4081	D 1901	(A,122,79) Diode	1SS355	
Q 4202	(A,78,94) Transistor	UMD2N	D 1921	(A,155,9) Diode	HZU8R2(B2)	
Q 4203	(B,17,93) Transistor	DTC323TU	D 1921 D 1940	(A,155,9) Diode (B,146,47) Diode	HZU8R2(B2) HZU11(B2)	
₩ 1 200	(5,17,50) Handiston	D1002010		(D, 170,71) DIOUE	112011(02)	
_	5 ■	6	AVIC-D1/UC	7	8	149
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	Circu	uit Symbol and No.	Part No.	Circ	uit Symbol and No.	Part No.
	D 1960	(A,40,91) Diode	1SS355	L 1801	(A,46,102) Inductor	CTF1556
	D 1961	(A,37,102) Diode	1SS355	L 1802	(A,50,102) Inductor	CTF1556
	D 4200	(A,89,94) Diode	DAN202U	L 1810	(A,32,91) Inductor	CTF1306
Α	D 4201	(A,88,90) Diode	DAN202U	L 1811	(A,52,103) Inductor	CTF1306
	D 4201	(A,79,91) Diode	UDZS8R2(B)	L 1822	(A,42,92) Inductor	LCTC2R2K1608
	D 4203	(A,76,91) Diode	MA111	L 1823	(A,45,102) Inductor	CTF1556
	D 4204	(A,91,97) Diode	DAN202U	L 1830	(A,81,85) Choke Coil 100µH	CTH1315
	D 4300	(A,148,54) Diode	1SR154-400	L 1960	(A,36,94) Inductor	CTF1556
	D 4004	(A 440 54) Diada	400454 400	1 4000	(A 00 00) Industry	L CTAMORO IOCOO
	D 4301 D 4302	(A,148,51) Diode (A,148,58) Diode	1SR154-400 1SR154-400	L 4000 L 4300	(A,26,39) Inductor (B,155,54) Inductor	LCTAW2R2J2520 LCTAW1R0J2520
	D 4500	(B,57,57) Diode	DAN202U	L 4301	(B,157,86) Inductor	LCTAW4R7J2520
	D 4501	(B,60,57) Diode	DAN202U	L 4302	(B,155,32) Inductor	LCTAW1R0J2520
	D 4502	(B,56,53) Diode	DAN202U	L 4303	(B,156,75) Inductor	LCTAW1R0J2520
В		(1 == = a) = 1			(4.00.40)	000.004
D	D 4600 D 4601	(A,59,61) Diode (A,57,54) Diode	1SS355 UDZS4R7(B)	X 1501 ∕!\FU1401	(A,86,46) Radiator 12.58MHz (A,28,90) Fuse 3.15A	CSS1601 CEK1259
	ZNR4300	(B,157,91) Surge Protector	CSA30-201N	∴FU1401	(A,11,97) Fuse 3.15A	CEK1239
	L 1001	(A,16,53) Inductor	CTF1399	∴FU1820	(B,47,84) Fuse 2A	CEK1257
	L 1002	(A,31,69) Inductor	CTF1399	∴ FU1821	(B,41,81) Fuse 2A	CEK1257
	L 1003	(A,11,56) Inductor	CTF1399	∴ FU1823	(A,101,89) Fuse 4A	CEK1288
_	L 1201	(A,38,67) Inductor	CTF1334	∴ FU1830	(A,78,80) Fuse 1A	CEK1254
	L 1202	(B,28,67) Inductor	LCYC2R2K1608		(A,122,67) Fuse 250mA	CEK1276
	L 1203 L 1204	(A,22,45) Inductor (A,25,50) Inductor	LCYC2R2K1608 CTF1334	∴FU1860 ∴FU1900	(A,101,95) Fuse 0.5A (A,143,74) Fuse 1A	CEK1278 CEK1280
	207	(- 1,=0,00) Hiddotol	J.1 1001	<u></u> . 51000	(1.91 10)1 1/1 1 400 IA	52.11200
	L 1205	(A,24,64) Inductor	LCYC2R2K1608	∴ FU1920	(A,144,33) Fuse 1.75A	CEK1283
С	L 1207	(B,25,34) Inductor	LCYC2R2K1608	EF1401	(A,29,105) EMI Filter	CCG1067
	L 1301	(B,106,48) Inductor	CTF1389	EF1402	(A,14,79) EMI Filter	CCG1067
	L 1302	(B,107,55) Inductor	CTF1389	EF1403	(A,22,91) EMI Filter	CCG1067
	L 1303	(B,119,49) Inductor	CTF1389	EF1801	(A,41,100) EMI Filter	CCG1172
	L 1304	(B,119,55) Inductor	CTF1389	EF1820	(B,42,88) EMI Filter	CCG1172
	L 1305	(B,111,47) Inductor	LCTAW2R2J2520	EF1821	(B,38,89) EMI Filter	CCG1172
_	L 1401	(A,16,101) Inductor	CTF1334			
	L 1402	(A,15,101) Inductor	CTF1334	RESISTOR	<u>RS</u>	
	L 1403	(A,13,102) Inductor	CTF1334	D 4004	(5.40.44)	D04/40007F04
	L 1404	(A,18,101) Inductor	CTF1334	R 1001	(B,12,41)	RS1/16SS750J RS1/16SS103J
	L 1405	(A,12,109) Inductor	CTF1306	R 1002 R 1003	(B,11,43) (A,24,90)	RS1/16SS750J
D	L 1406	(A,11,105) Inductor	CTF1306	R 1004	(A,24,80)	RS1/16SS103J
	L 1407	(A,10,109) Inductor	CTF1306	R 1005	(B,14,80)	RS1/16SS750J
	L 1408	(A,9,105) Inductor	CTF1306			
	L 1409	(A,8,109) Inductor	CTF1306	R 1006	(B,13,78)	RS1/16SS103J
	L 1410	(A,7,105) Inductor	CTF1306	R 1007 R 1008	(B,14,43) (A,26,80)	RS1/16SS103J RS1/16SS103J
	L 1450	(B,104,112) Inductor	CTF1334	R 1009	(B,11,78)	RS1/16SS103J
	L 1451	(B,104,106) Inductor	CTF1334	R 1010	(B,13,47)	RS1/16S4701D
	L 1501	(A,97,43) Inductor	CTF1379			
	L 1502	(B,90,20) Inductor	CTF1334	R 1011	(B,11,49)	RS1/16S4701D
	L 1502 L 1503	(A,70,23) Inductor	CTF1334 CTF1379	R 1012 R 1013	(A,28,79)	RS1/16S4701D RS1/16S4701D
_	L 1504	(A,98,22) Inductor	CTF1379	R 1013 R 1014	(A,23,77) (B,12,74)	RS1/16S4701D
Е	L 1505	(A,70,39) Inductor	CTF1379	R 1015	(B,14,73)	RS1/16S4701D
	L 1506	(A,62,44) Inductor	CTF1334		· · · · ·	
	1 4507	(A 02 40) Indicate:	OTF4270	R 1016	(B,16,51)	RS1/16SS101J
	L 1507	(A,83,49) Inductor (A,94,61) Inductor	CTF1379 CTF1334	R 1017	(B,14,49)	RS1/16S4701D
	L 1508 L 1509	(A,94,61) Inductor	CTF1334	R 1018 R 1019	(B,11,50)	RS1/16S4701D RS1/16SS102J
	L 1510	(B,99,51) Inductor	CTF1334	R 1019 R 1020	(B,10,52) (A,29,75)	RS1/16SS102J
	L 1605	(B,52,23) Inductor	LCTAW2R2J2520	1. 1020	(· ·,>,· >)	
				R 1021	(A,26,76)	RS1/16S4701D
	L 1651	(A,50,22) Inductor	CTF1306	R 1022	(A,23,75)	RS1/16S4701D
	L 1652 L 1701	(A,49,22) Inductor (B,24,19) Inductor	CTF1306 CTF1463	R 1023	(A,22,68)	RS1/16SS102J
_	L 1701 L 1702	(B,24,19) Inductor (B,23,23) Inductor	CTF1463	R 1024	(B,10,70)	RS1/16SS101J
F	L 1702	(B,31,18) Ferrite Bead	CTF1528	R 1025	(B,11,73)	RS1/16S4701D
				R 1026	(B,14,72)	RS1/16S4701D
	L 1704	(A,42,6) Ferrite Bead	CTF1528	R 1027	(B,15,70)	RS1/16SS102J
	L 1705	(A,40,7) Ferrite Bead	CTF1528			
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Circ	uit Symbol and No.	Part No.		Circ	uit Symbol and	d No.	Part No.		
R 1028	(B,13,60)	RS1/16SS563J		R 1540	(B,97,28)		RS1/16SS473J		
R 1029	(B,17,56)	RS1/16SS473J		R 1541	(A,70,34)		RAB4C681J		
R 1030	(A,28,69)	RS1/16SS563J		R 1542	(B,97,30)		RS1/16SS473J		۸
D 1021	(1, 20, 71)	DC1/16CC/72 I		D 15/12	(P.07.20)		DC1/16CC/172 I		Α
R 1031 R 1032	(A,29,71) (B,12,62)	RS1/16SS473J RS1/16SS563J		R 1543 R 1544	(B,97,29) (B,97,31)		RS1/16SS473J RS1/16SS473J		
R 1033	(B,10,66)	RS1/16SS473J		R 1545	(B,94,29)		RS1/16S473J		
R 1201	(B,23,65)	RS1/16SS105J		R 1546	(A,66,42)		RS1/16SS473J		
R 1202	(A,14,46)	RS1/16SS105J		R 1547	(A,97,33)		RS1/16SS473J		
R 1203	(B,23,66)	RS1/16SS105J		R 1548	(4 00 36)		RAB4C681J		
R 1203 R 1204	(B,23,00) (A,14,47)	RS1/16SS105J		R 1546 R 1549	(A,98,36) (B,94,28)		RS1/16S473J		
R 1205	(B,23,69)	RS1/16SS105J		R 1550	(A,70,41)		RAB4C101J		
R 1207	(A,17,60)	RS1/16SS105J		R 1551	(A,98,40)		RAB4C681J		
R 1208	(B,17,50)	RS1/16SS0R0J		R 1552	(B,104,41)		RS1/16SS472J		
D 4040	(4.40.70)	D04/40007F01		D 4554	(D.402.40)		DC4/40004701		В
R 1213 R 1217	(A,19,76) (B,21,48)	RS1/16SS750J RS1/16S0R0J		R 1554 R 1555	(B,103,42) (B,79,40)		RS1/16SS473J RS1/16SS473J		_
R 1218	(B,24,42)	RS1/16S183J		R 1557	(A,90,46)		RS1/16SS473J		
R 1219	(A,24,43)	RS1/16SS0R0J		R 1558	(A,76,47)		RAB4C681J		
R 1220	(B,22,44)	RS1/16SS102J		R 1559	(A,79,47)		RAB4C681J		
D 4004	(5.400.54)	D04/40004044		D 4504	(4.00.40)		D04/40000044		
R 1301 R 1302	(B,109,54) (B,113,48)	RS1/16SS101J RS1/16SS101J		R 1561 R 1562	(A,92,46) (A,75,50)		RS1/16SS681J RS1/16SS104J		
R 1302	(B,113,46) (B,113,54)	RS1/16SS101J		R 1562	(A,75,50) (A,93,46)		RS1/16SS1045		
R 1304	(B,122,55)	RS1/16SS101J		R 1564	(A,76,50)		RS1/16SS104J		
R 1305	(B,123,48)	RS1/16SS101J		R 1565	(A,74,50)		RS1/16SS104J		
R 1501	(B,91,17)	RS1/16SS104J		R 1566	(B,95,51)		RS1/16SS473J		С
R 1502 R 1503	(B,89,17) (B,82,18)	RS1/16SS104J RS1/16SS104J		R 1567 R 1568	(B,97,50) (A,96,16)		RS1/16SS101J RS1/16SS681J		C
R 1503	(B,82,10) (B,82,20)	RS1/16SS104J		R 1569	(B,97,19)		RS1/16SS104J		
R 1505	(A,65,17)	RS1/16SS103J		R 1570	(A,99,21)		RS1/16SS473J		
	(, , ,				, , ,				
R 1506	(A,65,18)	RS1/16SS103J		R 1601	(B,58,16)		RS1/10S620J		
R 1507	(B,78,9)	RS1/16SS473J		R 1602	(B,56,16)		RS1/10S101J RS1/10S101J		
R 1508 R 1509	(A,79,14) (A,80,14)	RS1/16SS473J RS1/16SS473J		R 1603 R 1604	(B,60,16) (B,54,26)		RS1/16SS0R0J		
R 1510	(A,81,14)	RS1/16SS473J		R 1605	(B,55,26)		RS1/16SS0R0J		
	(, , ,				(, , ,				
R 1511	(B,81,13)	RS1/16SS473J		R 1606	(B,53,17)		RS1/16SS102J		
R 1512	(B,82,12)	RS1/16SS473J		R 1607	(B,96,43)		RS1/10S122J		D
R 1513 R 1514	(B,84,12) (B,86,11)	RS1/16SS104J RS1/16SS104J		R 1608 R 1609	(B,90,44) (B,91,40)		RS1/16S332J RS1/16S682J		_
R 1515	(A,65,16)	RS1/16SS104J		R 1701	(B,39,14)		RS1/16SS0R0J		
	(()/ /				
R 1516	(A,65,19)	RS1/16SS102J		R 1702	(B,39,7)		RS1/16SS0R0J		
R 1518	(B,78,13)	RS1/16SS473J		R 1704	(B,42,23)		RS1/16SS0R0J		
R 1519 R 1520	(B,94,22) (B,94,21)	RS1/16SS0R0J RS1/16SS0R0J		R 1706 R 1709	(B,34,19) (B,30,21)		RS1/16SS0R0J RS1/16SS0R0J		
R 1521	(A,77,14)	RAB4C681J		R 1711	(B,29,20)		RS1/16SS0R0J		
	(, , , ,				(, -, -,				
R 1522	(A,84,14)	RAB4C681J		R 1713	(B,28,22)		RS1/16SS0R0J		
R 1523	(A,88,14)	RAB4C681J		R 1714	(B,26,21)		RS1/16SS0R0J		
R 1524 R 1525	(A,92,14)	RAB4C681J RAB4C681J		R 1720 R 1721	(B,14,18)		RS1/16SS0R0J RS1/16SS0R0J		Ε
R 1525	(A,70,19) (A,96,15)	RS1/16SS681J		R 1721	(B,9,19) (B,12,18)		RS1/16SS0R0J		
	(* 1,00,10)				(=,:=,:=)		. 10 17 100001 100		
R 1527	(B,101,15)	RS1/16SS104J		R 1801	(A,64,35)		RS1/16SS101J		
R 1529	(A,98,19)	RAB4C681J		R 1802	(B,39,75)		RS1/16SS102J		
R 1530	(B,101,14)	RS1/16SS104J		R 1803	(B,39,77)		RS1/16SS103J		
R 1531 R 1532	(A,70,25) (A,98,25)	RAB4C681J RAB4C681J		R 1804 R 1805	(A,48,102) (A,63,33)		RS1/16S4701D RS1/16SS471J		
1002	(· ·,00,=0)	100010			(,55,55)				
R 1533	(A,70,28)	RS1/16SS681J		R 1806	(A,64,40)		RS1/16SS103J		
R 1534	(B,99,25)	RS1/16SS473J		R 1807	(A,50,98)		RS1/10S103J		
R 1535	(A,70,30)	RAB4C681J		R 1810	(A,36,90)		RS1/8S471J		
R 1536 R 1537	(B,97,27) (A,97,27)	RS1/16SS473J RS1/16SS681J		R 1811 R 1820	(A,41,86) (A,62,39)		RS1/8S471J RS1/16SS473J		F
1001	(· 1,0 · ,= · /	1.0.710000010		020	(, 1,02,00)				
R 1538	(A,97,28)	RS1/16SS473J		R 1821	(A,64,29)		RS1/16SS102J		
R 1539	(A,98,31)	RAB4C681J		R 1823	(A,66,27)		RS1/16SS472J		
			AVIC-D	1/UC	l _			151	
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	Circ	cuit Symbol and No.	Part No.	<u>Ci</u>	rcuit Symbol and No.	Part No.
	R 1824	(A,63,25)	RS1/16S472J	R 1940	(B,140,55)	RS1/16SS1R0J
	R 1825	(A,44,96)	RS1/16SS103J	R 1941	(B,138,59)	RS1/16SS103J
Α	R 1826	(A,34,92)	RS1/16SS153J	R 1942	(B,139,61)	RS1/16SS223J
^	R 1827	(B,113,95)	RS1/10S0R0J	R 1943	(B,146,50)	RS1/16SS221J
	R 1834	(A,86,80)	RS1/10S0R0J	R 1944	(B,150,59)	RS1/16SS121J
	R 1840	(A,121,65)	RS1/16SS0R0J	R 1945	(B,150,57)	RS1/16SS121J
	R 1843	(A,131,69)	RS1/16SS0R0J	R 1946	(B,150,55)	RS1/16SS121J
	R 1844	(A,132,65)	RS1/16SS471J	R 1949	(B,141,51)	RS1/16SS1R0J
	R 1846	(B,92,81)	RS1/16SS820J	R 1960	(A,57,41)	RS1/16SS101J
	R 1847	(B,92,83)	RS1/16SS820J	R 1961	(A,58,38)	RS1/16SS471J
	R 1848	(B,110,66)	RS1/16SS0R0J	R 1962	(A,59,40)	RS1/16SS103J
	R 1849	(B,89,86)	RS1/16S0R0J	R 1963	(A,36,92)	RS1/10S103J
	R 1850	(B,128,66)	RS1/10S181J	R 4000	(A,37,34)	RS1/16SS102J
В	R 1851	(B,131,65)	RS1/10S181J	R 4001	(A,46,32)	RS1/16SS102J
	R 1852	(B,133,65)	RS1/10S181J	R 4003	(A,36,33)	RS1/16SS181J
	R 1853	(B,129,68)	RS1/16SS221J	R 4004	(A,36,34)	RS1/16SS223J
	R 1862	(B,69,85)	RS1/16SS473J	R 4005	(A,35,34)	RS1/16SS102J
	R 1863	(B,71,86)	RS1/16SS473J	R 4006	(A,47,33)	RS1/16SS181J
_	R 1864	(B,85,76)	RS1/16SS103J	R 4007	(A,47,35)	RS1/16SS223J
	R 1865	(B,84,76)	RS1/16SS474J	R 4008	(A,49,34)	RS1/16SS102J
	R 1866	(B,95,15)	RS1/16SS223J	R 4009	(A,32,54)	RS1/16SS0R0J
	R 1867	(B,94,17)	RS1/16SS223J	R 4010	(A,48,55)	RS1/16SS0R0J
	R 1880	(B,129,93)	RS1/16SS103J	R 4016	(A,34,56)	RS1/16SS101J
	R 1881	(B,131,96)	RS1/16SS103J	R 4017	(B,47,63)	RS1/16SS224J
С	R 1882	(B,129,94)	RS1/16SS512J	R 4019	(A,47,58)	RS1/16SS101J
	R 1883	(B,133,90)	RS1/16SS224J	R 4020	(B,41,63)	RS1/16SS224J
	R 1884	(B,135,91)	RS1/16SS472J	R 4021	(A,41,56)	RS1/16SS0R0J
	R 1885	(B,132,98)	RS1/10S221J	R 4100	(B,40,71)	RS1/16SS472J
	R 1886	(B,132,103)	RS1/8S221J	R 4101	(B,46,70)	RS1/16SS472J
	R 1887	(B,136,105)	RS1/8S221J	R 4101	(B,46,71)	RS1/16SS472J
-	R 1888	(B,133,92)	RS1/16SS0R0J	R 4103	(B,40,70)	RS1/16SS472J
	R 1900	(A,114,78)	RS1/10S0R0J	R 4108	(B,37,68)	RS1/16SS472J
	R 1901	(A,122,81)	RS1/16S221J	R 4109	(B,36,68)	RS1/16SS472J
	R 1902	(A,144,64)	RS1/10S0R0J	R 4110	(B,37,66)	RS1/16SS472J
	R 1902	(A,122,82)	RS1/16S471J	R 4111	(B,41,64)	RS1/16SS471J
D	R 1904	(A,118,79)	RS1/16S101J	R 4112	(B,49,68)	RS1/16SS472J
	R 1905	(A,118,77)	RS1/16S471J	R 4113	(B,48,67)	RS1/16SS472J
	R 1906	(A,122,84)	RS1/16S223J	R 4114	(B,49,65)	RS1/16SS472J
	R 1907	(A,118,80)	RS1/16S103J	R 4115	(B,50,65)	RS1/16SS471J
	R 1908	(A,132,83)	RS1/16S2202D	R 4202	(A,82,91)	RS1/16SS223J
	R 1909	(A,132,80)	RS1/16S2201D	R 4203	(A,85,88)	RS1/16SS103J
	R 1910	(A,130,80)	RS1/16S4301D	R 4204	(A,81,92)	RS1/16SS473J
	R 1911	(A,139,81)	RS1/16SS821J	R 4205	(A,43,83)	RS1/16SS101J
	R 1912	(A,139,83)	RS1/16SS221J	R 4206	(A,41,76)	RS1/16SS101J
	R 1913	(A,144,79)	RS1/8S821J	R 4207	(A,46,76)	RS1/16SS471J
Е	R 1914	(A,144,75)	RS1/16SS153J	R 4208	(A,37,81)	RS1/16SS561J
_	R 1915	(A,141,79)	RS1/8S821J	R 4209	(A,37,77)	RS1/16SS471J
	R 1917	(A,110,71)	RS1/16SS0R0J	R 4210	(A,29,79)	RS1/16SS561J
	R 1920	(B,136,30)	RS1/10S0R0J	R 4211	(A,90,100)	RS1/16SS103J
	R 1921	(B,140,30)	RS1/10S0R0J	R 4212	(A,86,99)	RS1/16SS103J
	R 1922	(B,137,27)	RS1/16SS103J	R 4213	(B,20,91)	RS1/16SS223J
	R 1923	(A,157,7)	RS1/16SS221J	R 4214	(B,13,87)	RS1/16SS223J
	R 1924	(A,164,11)	RS1/10S121J	R 4215	(B,14,93)	RS1/16SS223J
	R 1925	(A,168,11)	RS1/10S121J	R 4216	(B,19,91)	RS1/16SS471J
	R 1926	(A,168,8)	RS1/10S121J	R 4217	(B,12,87)	RS1/16SS471J
	R 1927	(B,142,19)	RS1/10S0R0J	R 4218	(B,13,92)	RS1/16SS471J
F	R 1930	(B,137,26)	RS1/16SS471J	R 4219	(B,16,83)	RS1/16SS223J
	R 1931	(B,135,26)	RS1/16SS471J	R 4220	(B,16,89)	RS1/16SS223J
	R 1932	(A,160,12)	RS1/16SS223J	R 4221	(B,12,81)	RS1/16SS223J
	R 1933	(A,162,12)	RS1/16SS183J	R 4222	(B,17,83)	RS1/16SS471J
		,		/IC-D1/UC	• · · · · · · · ·	
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	Circu	uit Symbol and No.	Part No.		Circ	cuit Symbol and No.	Part No.	
R	4223	(B,17,89)	RS1/16SS471J			-		
	4224	(B,11,81)	RS1/16SS471J		C 1024	(B,10,63)	CKSRYB104K16	
	4225	(A,85,99)	RS1/16SS221J		C 1024	(A,12,47)	CKSQYB225K10	
11	4225	(7,00,99)	1000710002210		C 1201		CKSQYB225K10	Α
_	4000	(4.00.400)	D04/4000404 I			(A,11,47)		^
	4226	(A,80,106)	RS1/16SS101J		C 1203	(B,21,66)	CKSQYB225K10	
	4227	(A,81,98)	RS1/10S102J		C 1204	(B,19,66)	CKSQYB225K10	
	4228	(A,102,102)	RS1/16SS103J					
	4229	(A,102,103)	RS1/16SS103J		C 1205	(A,37,68)	CKSRYB104K16	
R	4230	(A,78,90)	RS1/16SS391J		C 1206	(A,32,64)	CEVW101M16	
					C 1207	(A,28,60)	CKSRYB103K50	_
R	4231	(A,78,89)	RS1/16SS391J		C 1208	(B,25,67)	CKSRYB104K16	
	4233	(A,70,100)	RS1/16SS102J		C 1209	(B,26,68)	CKSYF106Z10	
	4302	(B,155,40)	RS1/16S681J			(, -,,		
	4303	(B,156,66)	RS1/16S681J		C 1210	(A,27,50)	CKSRYB104K16	
	4304	(B,156,68)	RS1/16S681J		C 1211	(A,18,44)	CKSRYB104K16	
	1004	(2,100,00)	1101/1000010		C 1213	(A,19,47)	CKSRYB104K16	
Ь	1205	(B,154,71)	DC4/46C604 I		C 1213			В
	4305		RS1/16S681J			(B,28,60)	CKSQYB225K10	
	4306	(B,156,60)	RS1/16S681J		C 1215	(A,26,56)	CEVW101M16	
	4308	(B,156,63)	RS1/16S681J			44		
	4315	(B,154,26)	RS1/16S0R0J		C 1216	(A,19,45)	CKSYF106Z10	
R	4409	(B,44,44)	RS1/16SS102J		C 1217	(A,27,51)	CKSRYB103K50	
					C 1218	(A,20,54)	CKSQYB225K10	
R	4412	(B,41,46)	RS1/16SS101J		C 1219	(A,22,63)	CKSYF106Z10	
R	4413	(B,39,46)	RS1/16SS101J		C 1222	(A,20,62)	CKSRYB104K16	
R	4414	(B,43,45)	RS1/16SS223J			, ,		
	4415	(B,38,45)	RS1/16SS223J		C 1223	(A,17,70)	CEVW101M16	
	4416	(B,38,44)	RS1/16SS102J		C 1224	(A,11,71)	CEVW220M6R3	
	4410	(0,00,44)	1101/10001020		C 1233	(B,24,44)	CKSRYB104K16	
Ь	4500	(D.EQ. 47)	DC4/46CC4041					
	4500	(B,52,47)	RS1/16SS104J		C 1301	(B,105,55)	CKSRYB103K50	С
	4501	(B,52,49)	RS1/16SS102J		C 1302	(B,108,48)	CKSRYB103K50	C
	4502	(B,47,49)	RS1/16SS102J		_			
	4503	(B,43,51)	RS1/16SS473J		C 1307	(B,109,48)	CKSRYB103K50	
R	4504	(B,54,49)	RS1/16SS473J		C 1405	(A,12,99)	CKSRYB471K50	
					C 1406	(A,11,99)	CKSRYB471K50	
R	4505	(B,43,54)	RS1/16SS0R0J		C 1407	(A,9,99)	CKSRYB471K50	
R	4506	(B,43,52)	RS1/16SS473J		C 1408	(A,8,99)	CKSRYB471K50	
	4507	(B,52,51)	RS1/16SS473J			, , ,		
	4508	(B,53,54)	RS1/16SS0R0J		C 1409	(A,7,99)	CKSRYB471K50	
	4509	(B,43,57)	RS1/16SS331J		C 1410	(A,5,99)	CKSRYB471K50	
	4000	(2,40,07)	1101/10000010		C 1411	(A,9,95)	CKSRYB103K50	
D	4510	(B,51,58)	RS1/16SS331J				CKSRYB102K50	
		· · · /			C 1450	(B,105,110)		
	4511	(B,51,59)	RS1/16SS104J		C 1451	(B,104,103)	CKSRYB102K50	D
	4512	(B,45,59)	RS1/16SS104J					D
	4515	(B,59,52)	RS1/16SS0R0J		C 1501	(A,96,51)	CEVLW100M16	
R	4600	(A,59,63)	RS1/16SS102J		C 1502	(A,95,47)	CKSRYB103K50	
					C 1503	(B,89,20)	CKSSYB104K10	
C	APACITO	<u>ORS</u>			C 1504	(A,94,44)	CKSRYB103K50	
					C 1505	(A,63,18)	CKSSYB104K10	
С	1001	(B,16,43) 10µF	CCG1171					
	1002	(B,10,46) 10µF	CCG1171		C 1506	(B,78,22)	CKSSYB104K10	
	1002	(A,28,83) 10µF	CCG1171		C 1507	(B,78,23)	CKSSYB104K10	
	1003	(A,21,79) 10µF	CCG1171		C 1508	(B,79,26)	CKSRYB102K50	
		, .			C 1509	(B,92,27)	CKSRYB104K16	
C	1005	(B,9,78) 10μF	CCG1171		C 1510	(A,70,38)	CKSRYB102K50	
_		(5.1) (6			C 1310	(4,70,30)	CNONTETIOZNO	
	1006	(B,15,77) 10µF	CCG1171		0.4544	(4.05.44)	01/00//04041/40	E
	1007	(B,13,43)	CKSRYB473K50		C 1511	(A,65,44)	CKSSYB104K10	
С	1008	(A,26,78)	CKSRYB473K50		C 1512	(A,88,46)	CKSRYB105K10	
С	1009	(B,12,78)	CKSRYB473K50		C 1513	(A,83,46)	CKSRYB102K50	
	1010	(B,14,50)	CCSRCK1R0C50	1	C 1515	(A,91,46)	CKSRYB103K50	
		, , ,			C 1516	(A,93,59)	CKSRYF104Z25	
С	1012	(A,26,75)	CCSRCK1R0C50)				
	1014	(B,11,72)	CCSRCK1R0C50		C 1517	(B,98,48)	CKSQYB225K10	
	1014	(B,15,55)	CKSRYB105K10		C 1519	(A,96,59)	CKSRYF104Z25	
					C 1520	(B,103,52)	CKSSYB104K10	
	1017	(A,28,71)	CKSRYB105K10		C 1521	(B,97,47)	CKSSYB103K16	
C	1018	(B,15,67)	CKSRYB105K10				CKSRYB102K50	
					C 1603	(B,61,21)	CN3K1D1U2K3U	
	1019	(A,16,57)	CEVW100M16			(5.24.25)	01/0-1/-	
С	1020	(A,33,73)	CEVW100M16		C 1606	(B,61,22)	CKSRYB102K50	F
С	1021	(A,12,63)	CEVW100M16		C 1608	(B,61,23)	CKSRYB104K16	
	1022	(B,15,59)	CKSRYB104K16		C 1651	(A,53,19)	CKSRYB103K50	
	1023	(A,30,72)	CKSRYB104K16		C 1652	(A,50,19)	CKSRYB103K50	
-	-	,			C 1653	(A,47,13)	CKSRYB104K25	
			Г	AVIC-D				
_		5	6	AVIC-D	1/00	7 -	0	153 _
_		5	0				8	-

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	Cir	cuit Symbol and No.	Part No.	<u>Ci</u>	rcuit Symbol and No.	Part No.
	C 1709	(B,22,20)	CKSSYB104K10	C 1942	(B,142,47)	CKSRYB104K25
	C 1712	(B,24,26)	CKSSYB104K10	C 1944	(B,144,47)	CKSRYB473K50
Α	C 1801	(B,48,75)	CKSRYF104Z25	C 1960	(A,35,102)	CKSRYF103Z50
	C 1802 C 1803	(B,48,78) (A,40,97)	CKSRYB473K25 CKSRYF104Z25	C 4000 C 4001	(A,44,33) (A,39,33)	CKSRYB152K50 CKSRYB152K50
	C 1804	(B,44,100)	CKSRYF104Z25	C 4002	(A,31,39)	CKSRYB102K50
	C 1806	(B,44,116)	CKSQYF103Z50	C 4003	(A,30,33)	CEVW470M16
	C 1807	(B,46,116)	CKSQYF104Z50	C 4004	(A,31,37)	CKSRYB104K16
	C 1810 C 1811	(A,43,87) (B,57,101)	CKSRYF104Z25 CKSRYB471K50	C 4005 C 4006	(A,36,37) (A,37,37)	CKSRYB105K10 CKSRYB105K6R3
	C 1812	(B,63,115)	CKSRYB471K50	C 4007	(A,39,37)	CKSRYB105K6R3
	C 1813	(B,55,100)	CKSRYB471K50	C 4008	(A,40,37)	CKSRYB104K16
_	C 1814	(B,61,115)	CKSRYB471K50	C 4009	(A,43,37)	CKSRYB104K16
В	C 1815	(B,54,100)	CKSRYB471K50	C 4010	(A,44,37)	CKSRYB105K6R3
	C 1816	(B,60,115)	CKSRYB471K50	C 4011	(A,34,37)	CKSRYB105K10
	C 1817	(B,53,100)	CKSRYB471K50	C 4012	(A,45,37)	CKSRYB105K6R3
	C 1818	(B,59,115)	CKSRYB471K50	C 4013	(A,46,37)	CKSRYB105K10
	C 1819	(B,43,100)	CKSRYB471K50	C 4014	(A,48,37)	CKSRYB105K10
	C 1824	(B,41,84)	CKSRYF104Z25	C 4015	(A,30,41)	CKSYB475K16 CKSYB475K16
	C 1825	(A,60,35)	CKSRYB105K10	C 4016	(A,30,43)	
	C 1826	(A,43,96)	CKSRYF104Z25	C 4017	(A,30,46)	CKSYB475K16
	C 1828	(B,39,85)	CKSRYF104Z25	C 4018	(A,30,48)	CKSYB475K16
	C 1830	(A,87,77)	CKSQYB104K25	C 4019	(A,50,41)	CKSYB475K16
С	C 1831 C 1832	(A,99,73) (A,86,77)	CEVLW330M25 CKSRYB104K25	C 4020 C 4021	(A,50,43) (A,50,46)	CKSYB475K16 CKSYB475K16
		, ,				
	C 1833 C 1840	(A,92,73)	CEVLW330M25 CEVW101M16	C 4022 C 4023	(A,50,48) (A,33,52)	CKSYB475K16 CCSRCH100D50
	C 1841	(A,140,55) (A,122,69)	CKSRYB103K50	C 4023	(A,33,52) (A,34,54)	CCSRCH100D50
	C 1843	(A,104,63)	CEVW101M16	C 4025	(A,35,55)	CCSRCH100D50
	C 1845	(A,128,71)	CKSRYB103K50	C 4026	(A,40,60)	CEVW100M16
	C 1847	(B,95,82)	CKSRYB104K25	C 4027	(A,42,55)	CKSRYB104K16
	C 1850	(B,129,71)	CKSRYB473K50	C 4034	(A,43,55)	CKSRYB104K16
	C 1851	(A,114,65)	CEVLW101M10	C 4035	(A,45,55)	CCSRCH100D50
	C 1852	(B,110,69)	CKSRYB103K50	C 4036	(A,46,55)	CCSRCH100D50
D	C 1855	(B,132,95)	CKSRYB472K50	C 4037	(A,47,52)	CCSRCH100D50
	C 1880	(B,132,91)	CKSRYB104K16	C 4038	(A,38,57)	CKSRYB104K16
	C 1881	(B,144,92)	CKSRYB103K50	C 4100	(B,36,62) 10µF	CCG1138
	C 1882	(A,145,93)	CEVW100M16	C 4101	(B,56,64) 10µF	CCG1138
	C 1883	(B,143,94)	CKSRYB103K50	C 4102	(B,51,63)	CKSRYB105K6R3
	C 1884	(A,94,92)	CEVW101M16	C 4103	(B,36,66)	CKSRYB105K6R3
	C 1900	(A,126,82)	CKSRYB104K25	C 4106	(B,38,69)	CCSRCH101J50
	C 1901	(A,128,76)	CEVW101M16	C 4107	(B,38,65)	CCSRCH101J50
	C 1902	(A,118,81)	CKSRYB102K50	C 4108	(B,48,69)	CCSRCH101J50
	C 1903 C 1904	(A,150,87) (A,129,80)	CEVW101M16 CKSRYB103K50	C 4109 C 4110	(B,48,65) (B,43,71)	CCSRCH101J50 CKSRYB104K16
Е						
-	C 1905	(A,130,83)	CKSRYB102K50	C 4111	(A,47,67)	CEVW100M16
	C 1906	(A,143,86)	CEVW101M16	C 4200	(A,48,79)	CEVW100M16
	C 1907 C 1908	(A,138,71) (A,140,74)	CKSRYB103K50 CKSRYB104K25	C 4201 C 4202	(A,43,73) (A,49,73)	CEVW100M16 CEVW100M16
	C 1908	(A,140,74) (A,116,73)	CEVLW101M10	C 4202 C 4203	(A,39,73)	CEVW100M16
	C 1911	(B,125,77)	CKSRYB103K50	C 4204	(A,41,79)	CEVW100M16
	C 1912	(B,132,77)	CKSRYB104K25	C 4205	(A,33,79)	CEVW100M16
	C 1920	(A,148,25)	CEVW221M10	C 4206	(A,70,98)	CKSRYB105K10
	C 1921	(B,134,22)	CKSRYB473K50	C 4207	(A,70,96)	CKSRYB105K10
	C 1922	(A,135,16)	CEVW101M16	C 4208	(A,77,98)	CKSRYB105K10
F	C 1923	(A,170,9)	CKSRYB102K50	C 4209	(A,75,99)	CKSRYB105K10
	C 1924	(A,135,8)	CEVW100M16	C 4210	(A,67,97)	CKSRYB105K10
	C 1925	(A,157,10)	CKSRYB473K50	C 4211	(A,74,100)	CKSRYB105K10
	C 1926	(A,137,25)	CEVW221M10 CKSRYB104K16	C 4212	(A,76,96)	CKSRYB105K10
	C 1940	(B,141,56)		C 4213 AVIC-D1/UC	(A,78,98)	CKSRYB105K10
-	154	1 -	2	- IVIO-D1/00	3 -	4

	5	6		7		8	
<u>Cir</u>	cuit Symbol and No.	Part No.		Circuit Symb	ol and No.	Part No.	
			IC 500)1 (A,28,51)	IC	TC90A64AF-P	
C 4215	(A,91,105) 10µF	CCG1138	IC 502	26 (A,62,27)	IC	TC7SH00FUS1	
C 4216	(A,72,91)	CKSRYB104K25	IC 506			TC7SH08FUS1	
C 4217	(A,70,103)	CEHVW100M16	IC 515			NJM2138V	Α
C 4218	(B,19,93)	CKSRYB222K50	IC 518			NJM082BV	
C 4219	(B,12,89)	CKSRYB222K50		(, , ,			
			IC 533	31 (A,67,77)	IC	OZ961ISN	
C 4220	(B,13,94)	CKSRYB222K50	IC 533	33 (A,59,65)	IC	TC7SH08FUS1	
C 4224	(B,17,87)	CKSRYB222K50	IC 560)1 (A,91,53)	IC	PE5479A	
C 4225	(B,12,83)	CKSRYB222K50	IC 560			S-80835CNNB-B8U	J _
C 4229	(B,16,82)	CKSRYB222K50	IC 565			S-29221BROI-J8T1	
C 4230	(A,77,105)	CKSYB475K16		, , ,			
			IC 570	00 (A,87,102)	IC	SBX3050-01	
C 4231	(A,79,105)	CKSYB475K16	IC 570)1 (A,88,90)	IC	TC7SH08FUS1	
C 4232	(A,58,79) 2200µF/16V	CCH1659(P35)	IC 570)2 (A,86,156)	IC	TPS850	
C 4233	(A,85,104)	CEHVW330M16	IC 584	11 (A,140,25)	IC	R1130H251B	
C 4234	(A,83,94)	CKSSYF104Z16	IC 585	51 (A,116,25)	IC	BD6171KV	В
C 4235	(A,93,105)	CKSRYB473K50		, , ,			
			IC 590)1 (A,37,80)	IC	NJM2903V	
C 4236	(A,71,86)	CEVW470M16	Q 500)2 (A,43,64)	Transistor	2SC4617	
C 4302	(B,155,36)	CKSYB475K16	Q 510			2SC4617	
C 4303	(B,155,42)	CKSRYB103K50	Q 510			2SA1774	
C 4304	(B,152,36)	CKSRYB103K50	Q 510	, , , ,		2SC4617	_
C 4306	(A,150,37)	CEVW470M6R3	G 010	(, 1,01,00)			
	(,,,		Q 515	51 (A,44,38)	Transistor	UMZ1N	
C 4307	(A,142,37)	CEVW220M16	Q 515	, , , ,		UMZ1N	
C 4308	(B,154,73)	CKSRYB103K50	Q 515			UMZ1N	
C 4309	(A,149,65)	CEVW221M10	Q 515			UMZ1N	
	, ,			, , , ,			
C 4310	(A,149,76)	CEVW221M10	Q 515	55 (A,47,26)	iransistor	UMZ1N	С
C 4311	(A,151,81)	CKSRYB103K50	0.54	-0 (4.00.00)	To a series to a series	111147411	O
	(4.442.42)	01/05)/5.4001/50	Q 515			UMZ1N	
C 4316	(A,140,43)	CKSRYB103K50	Q 518			UMX2N	
C 4317	(A,141,49)	CKSRYB104K16	Q 518			UMT2N	
C 4410	(B,47,43)	CKSRYB105K10	Q 533	, , , ,		2SC4617	
C 4411	(B,44,43)	CKSRYB105K10	Q 533	32 (A,76,72)	Transistor	DTA144EE	
C 4412	(B,40,45)	CKSRYB105K10					
			Q 533			TS8M1	
C 4413	(B,40,43)	CKSRYB105K10	Q 533			TS8M1	
C 4415	(A,45,28)	CEVW100M16	Q 534	12 (A,63,73)	Transistor	2SC4617	
C 4416	(A,38,28)	CEVW220M16	Q 534	43 (A,60,73)	Transistor	2SC4617	
C 4500	(B,50,48)	CKSRYB105K6R3	Q 535	51 (A,54,82)	Transistor	2SC4097	
C 4502	(B,50,50)	CKSRYB103K50					_
			Q 537	71 (A,65,62)	Transistor	2SC4617	D
C 4503	(B,45,50)	CKSRYB103K50	Q 537	72 (A,68,61)	Transistor	2SC4617	
C 4504	(B,42,53)	CCSRCH471J50	Q 537	73 (A,68,65)	Transistor	2SA1774	
C 4505	(B,50,52)	CCSRCH221J50	Q 537			UMX2N	
C 4506	(B,45,52)	CCSRCH221J50	Q 538	30 (A,71,64)	Transistor	2SC4617	
C 4507	(B,54,52)	CCSRCH471J50		(,, ,, ,,			
	, , ,		Q 560)3 (A,86,40)	Transistor	2SC4617	
C 4508	(B,46,58)	CKSRYF104Z25	Q 568	,		UMF5N	_
C 4509	(B,42,55)	CKSRYB105K6R3	Q 568			UMF5N	
C 4510	(B,53,57)	CKSRYB105K6R3	Q 568	, , , ,		FMG12	
C 4511	(A,53,62)	CEVW220M16	Q 570	,	Transistor	2SC4617	
C 4601	(A,53,55)	CEVW101M16	Q 0	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Translotor	200 1011	
0 1001	(* 1,00,00)	02111101III10	Q 570)2 (A 86 143)	Transistor	2SA1774	
			Q 570		Transistor	2SA1774	Е
MONI D	ANIFI II!		Q 583			RSQ035P03	
	ANEL Unit		Q 583	, , , , ,		RSQ035P03	
Consists	<u>s of</u>		D 533	, , , , ,			
Monitor	PCB		D 33.	31 (A,73,75)	Diode	UDZS6R2(B)	
Keyboar	d PCB		D 533	32 (A,74,78)	Diode	UDZS6R2(B)	
Panel Po				,			
i anti P	<u> </u>		D 533 D 533			MA147 MA147	
			D 533	, , , ,		UDZS5R6(B)	
			D 533	, , , ,		UDZS5R6(B)	
للابب	<u> </u>		D 533	ου (A,37,78)	Diode	UDZ30KZ(B)	
Unit Nu	umber:CWM9920		D 500	7 (4.60.00)	Diodo	DD754\/40	
Unit N	ame:MONI_PANEL	Unit	D 533	,		RB751V40	
JIIIL INC		Jiii	D 533	, , ,		UDZS5R6(B)	F
			D 537			UDZS8R2(B)	
<u>MISCEL</u>	<u>LANEOUS</u>		D 560	, , , ,		RB500V-40	
			D 561	I1 (A,120,53)	Diode	UDZS5R6(B)	
			AVIC-D1/UC				4
							155

5 = 6 AVIC-D1/UC 7 = 8

	Circu	uit Symbol and No.	Part No.	Circu	uit Symbol and No.	Part No.
		-			-	
	D 5612	(A,122,50) Diode	UMZ6R8N	L 5151	(A,59,17) Inductor	LCKAW100J2520
	D 5613	(A,118,49) Diode	UMZ6R8N	L 5152	(A,55,15) Inductor	LCKAW100J2520
	D 5614	(A,122,45) Diode	UMZ6R8N	L 5181	(A,55,12) Inductor	LCKAW101J2520
Α	D 5615	(A,118,44) Diode	UMZ6R8N	L 5182	(A,51,11) Inductor	LCKAW101J2520
	D 5681	(A,71,13) Diode	1SS355	L 5311	(A,51,76) Inductor	CTH1256
	D 5683	(A,9,22) Diode	UDZS5R6(B)	L 5601	(A,106,44) Inductor	LCKBW100K2520
	D 5684	(A,9,28) Diode	UDZS5R6(B)	L 5606	(A,107,50) Inductor	CTF1306
	D 5700	(A,8,9) LED	SML-310PT(KL)	L 5607	(A,106,52) Inductor	CTF1306
_	D 5701	(A,18,9) LED	SML-310PT(KL)	L 5801	(A,20,32) Inductor	LCKAW100J2520
	D 5702	(A,75,13) LED	SML-310PT(KL)	L 5802	(A,23,32) Inductor	LCKAW100J2520
	D 5700	(A 44 0) LED	CML 240DT/IZL)	I 5902	(A 27 22) Industor	I CKAM400 12520
	D 5703	(A,41,8) LED	SML-310PT(KL)	L 5803	(A,27,32) Inductor	LCKAW100J2520
	D 5704	(A,32,8) LED	SML-310PT(KL)	L 5804	(A,30,32) Inductor	LCKAW100J2520
	D 5705	(A,50,8) LED	SML-310PT(KL)	L 5841	(A,139,15) Choke Coil 10µH	
В	D 5706	(A,75,3) LED	SML-310PT(KL)	L 5843	(A,129,32) Inductor	CTF1635
	D 5707	(A,86,4) LED	SML-310PT(KL)	L 5851	(A,123,12) Choke Coil 18µH	C1H1250
	D 5708	(A,8,164) LED	SML-310PT(KL)	L 5852	(A,93,14) Choke Coil 10µH	CTH1259
	D 5709	(A,75,164) LED	SML-310PT(KL)	L 5862	(A,103,13) Choke Coil 68µH	CTH1318
	D 5710	(A,18,164) LED	SML-310PT(KL)	L 5863	(A,98,21) Inductor	DTL1096
	D 5711	(A,86,13) LED	SML-310PT(KL)	L 5864	(A,98,9) Inductor	CTF1635
	D 5712	(A,85,164) LED	SML-310PT(KL)	L 5865	(A,125,37) Inductor	CTF1635
_	D 5713	(A 22 165) LED	SML-310PT(KL)	L 5901	(A 45.72) Industor	LCKAW100J2520
	D 5713 D 5714	(A,32,165) LED (A,64,10) LED	CL-190UB2-X	T 5331	(A,45,73) Inductor (A,105,78) Transformer	CTT1119
	D 5714 D 5715	(A,66,167) LED	CL-1900B2-X CL-190UB2-X	TH5601	(A,77,7) Thermistor	CCX1051
	D 5716	(A,50,165) LED	SML-310PT(KL)	X 5001	(A,34,69) Crystal Resonator 42MHz	
	D 5710	, , ,	CL-190UB2-X	X 5601	(A,89,40) Radiator 12.58MHz	
С	ט טוונ	(A,66,4) LED	CL-1900B2-X	A 5001	(A,09,40) Radiator 12.50IVITZ	C331001
	D 5718	(A,64,162) LED	CL-190UB2-X	S 5700	(A,69,6) Push Switch	CSG1155
	D 5835	(A,136,25) Diode	RB500V-40	S 5701	(A,62,6) Push Switch	CSG1126
	D 5851	(A,105,6) Diode	RB160M-30	S 5702	(A,53,8) Push Switch	CSG1155
	D 5861	(A,119,7) Diode	RSX201L-30	S 5703	(A,29,8) Push Switch	CSG1155
	D 5862	(A,105,17) Diode	RB548W	S 5704	(A,16,6) Push Switch	CSG1155
	D 5863	(A,105,20) Diode	RB548W	S 5709	(A,77,166) Push Switch	CSG1155
	D 5864	(A,116,34) Diode	RB548W	S 5710	(A,86,166) Push Switch	CSG1155
	D 5865	(A,120,34) Diode	RB548W	S 5713	(A,80,8) Switch(SELECT)	CSX1075
	D 5866	(A,123,34) Diode (A,123,34) Diode	RB548W	S 5715	(A,29,165) Push Switch	CSG1155
	D 5901	(A,46,15) LED	SML-310PT(KL)	S 5716	(A,16,167) Push Switch	CSG1155
_		, , ,	,		(, =, = ,	
D	D 5902	(A,46,23) LED	SML-310PT(KL)	S 5717	(A,6,167) Push Switch	CSG1155
	D 5903	(A,15,4) LED	SML-310PT(KL)	S 5718	(A,6,6) Push Switch	CSG1155
	D 5904	(A,15,9) LED	SML-310PT(KL)	S 5719	(A,62,166) Push Switch	CSG1126
	D 5905	(A,13,85) LED	SML-310PT(KL)	S 5720	(A,55,166) Push Switch	CSG1155
	D 5906	(A,39,85) LED	SML-310PT(KL)	S 5901	(A,9,85) Push Switch	CSG1126
	L 5001	(A,18,39) Inductor	CTF1306	S 5902	(A,44,85) Push Switch	CSG1126
	L 5002	(A,22,37) Inductor	CTF1306	VR5331	(A,69,83) Semi-fixed $15k\Omega(B)$	CCP1424
	L 5003	(A,26,37) Inductor	CTF1306			
	L 5004	(A,28,38) Inductor	CTF1306	RESISTOF	RS	
	L 5005	(A,28,68) Inductor-Array	CTF1421		<u> </u>	
	. 5000	(4.00.00)	OTE4 404	R 5001	(A,27,36)	RS1/16S101J
Е	L 5006	(A,23,66) Inductor-Array	CTF1421	R 5002	(A,21,35)	RS1/16S470J
	L 5008	(A,26,67) Inductor	CTF1306	R 5003	(A,29,36)	RS1/16S101J
	L 5009	(A,23,37) Ferrite Bead	CTF1528	R 5004	(A,33,35)	RS1/16S101J
	L 5011	(A,20,36) Inductor	CTF1306	R 5005	(A,44,45)	RS1/16S473J
	L 5012	(A,25,37) Ferrite Bead	CTF1528	D 5000	(4 47 46)	DC4/460000 !
	L 5013	(A,29,65) Ferrite Bead	CTF1528	R 5006 R 5009	(A,47,46) (A,44,62)	RS1/16S392J RS1/16S152J
	L 5014	(A,24,64) Ferrite Bead	CTF1528	R 5010	(A,42,67)	RS1/16S331J
	L 5015	(A,20,65) Inductor	CTF1306	R 5012	(A,32,64)	RS1/16S105J
	L 5016	(A,16,48) Ferrite Bead	CTF1528	R 5012	(A,34,65)	RS1/16S391J
	L 5071	(A,67,33) Inductor	LCKAW100J2520	11 3013	(, 1,07,00)	NO 1/ 10003 10
	1 5074	(A 40 40) la directa :	LOVDWADOMOTOO	R 5018	(A,22,68)	RS1/16S101J
	L 5074	(A,43,42) Inductor	LCKBW1R0M2520	R 5022	(A,20,67)	RS1/16S101J
F	L 5075	(A,52,42) Inductor	LCKBW100K2520	R 5024	(A,14,60)	RS1/16S333J
	L 5078	(A,50,46) Inductor	LCKAW100J2520	R 5025	(A,16,39)	RS1/16S101J
	L 5079	(A,46,49) Inductor	CTF1306	R 5026	(A,30,36)	RS1/16S0R0J
	L 5101	(A,130,5) Inductor	LCKAW100J2520			

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	5		6	-		7		8	
<u>C</u>	Circuit Symbol an	<u>ıd No.</u>	Part No.		Circ	uit Symbol	and No.	Part No.	
R 5027	7 (A,17,31)		RS1/16S101J	R	5334	(A,71,69)		RS1/16S102J	
R 5027	\		RS1/16S101J		5335	(A,71,09) (A,59,70)		RS1/16S102J	
						(A,79,70) (A,79,72)			
R 5029			RS1/16S102J		5336			RS1/16S513J	Α
R 5030	, , , , , ,		RS1/16S101J		5337	(A,61,79)		RS1/16S105J	^
R 5037	(A,25,82)		RS1/16S472J	R	5338	(A,74,75)		RS1/16S103J	
R 5038	3 (A,27,82)		RS1/16S473J	ь	5339	(A,66,83)		RS1/16S563J	
			RS1/16S473J						
R 5039					5340	(A,73,79)		RS1/16S103J	
R 5040	, , , , , ,		RS1/16S473J		5342	(A,78,69)		RS1/16S511J	
R 5061	, , , , , ,		RS1/16S473J		5343	(A,79,66)		RS1/16S821J	
R 5101	(A,52,55)		RS1/16S1502F	R	5344	(A,57,74)		RS1/16S473J	_
R 5102	2 (A,49,56)		RS1/16S1003F	R	5350	(A,60,61)		RS1/16S471J	
R 5103			RS1/16S681J		5351	(A,57,81)		RS1/16S332J	
R 5104			RS1/16S331J		5360	(A,57,75)		RS1/16S104J	
R 5105			RS1/16S0R0J		5361	(A,57,77)		RS1/16S103J	
R 5107			RS1/16S392J		5371	(A,63,64)		RS1/16S101J	В
1 3101	(4,52,51)		1000920	IX.	557 1	(7,05,04)		131/1031013	
R 5108	3 (A,52,60)		RS1/16S331J	R	5372	(A,71,62)		RS1/16S103J	
R 5109	(A,49,64)		RS1/16S391J	R	5373	(A,73,65)		RS1/16S471J	
R 5110	(A,52,65)		RS1/16S391J	R	5374	(A,72,67)		RS1/16S101J	
R 5150	(A,39,28)		RS1/16S183J	R	5375	(A,64,64)		RS1/16S104J	
R 5152			RS1/16S3901F		5376	(A,67,67)		RS1/16S103J	_
0.02	(, 1, 10,00)				00.0	(* 1,01 ,01)		1101/1001000	
R 5153			RS1/16S1501F		5377	(A,68,63)		RS1/16S473J	
R 5154	(A,54,30)		RS1/16S102J	R	5378	(A,71,66)		RS1/16S101J	
R 5155	5 (A,51,30)		RS1/16S102J	R	5379	(A,63,61)		RS1/16S824J	
R 5156	S (A,45,31)		RS1/16S1501F	R	5602	(A,103,56)		RS1/16S471J	
R 5157	, , , , , ,		RS1/16S3901F		5603	(A,110,52)		RS1/16S473J	
	(', '-,)					(-,,)			С
R 5160	(A,58,33)		RS1/16S1002F	R	5604	(A,107,49)		RS1/16S471J	
R 5161			RS1/16S1802F		5605	(A,104,59)		RS1/16S471J	
R 5162	\		RS1/16S102J		5606	(A,103,53)		RAB4CQ471J	
R 5163			RS1/16S3901F		5607	(A,103,57)		RS1/16S471J	
R 5164			RS1/16S1501F		5608	(A,102,50)		RS1/16S471J	
10 310-	(1,30,30)		101/10010011	10	3000	(7,102,50)		101/1004/10	
R 5165	5 (A,47,38)		RS1/16S102J	R	5609	(A,102,47)		RS1/16S471J	
R 5166			RS1/16S272J		5610	(A,89,64)		RS1/16S471J	
R 5167			RS1/16S102J		5611	(A,94,64)		RS1/16S470J	
R 5168			RS1/16S272J		5612	(A,92,64)		RS1/16S470J	
	, , , , , ,							RS1/16S272J	
R 5169	9 (A,42,31)		RS1/16S102J	K	5613	(A,96,64)		K31/1032/2J	
R 5170	(A,37,31)		RS1/16S272J	R	5614	(A,91,64)		RS1/16S272J	D
R 5171			RS1/16S331J		5619	(A,93,39)		RS1/16S473J	
R 5172			RS1/16S103J		5621	(A,93,40)		RS1/16S223J	
R 5174			RS1/16S331J		5622	(A,84,38)		RS1/16S473J	
R 5175	, , , , , ,		RS1/16S103J		5623	(A,97,64)		RS1/16S473J	
10170	(1,40,24)		110171001000	11	0020	(11,01,04)		1101/1004/00	
R 5177	(A,36,26)		RS1/16S331J	R	5624	(A,104,61)		RAB4CQ473J	
R 5178	3 (A,40,24)		RS1/16S103J	R	5625	(A,79,46)		RS1/16S473J	
R 5180	(A,35,29)		RS1/16S243J	R	5626	(A,75,50)		RS1/16S473J	
R 5181	(A,42,23)		RS1/16S3002F	R	5627	(A,101,43)		RAB4CQ473J	
R 5182			RS1/16S223J	R	5628	(A,81,44)		RS1/16S0R0J	
				_					
R 5183	· · · · /		RS1/16S1203F		5629	(A,101,45)		RS1/16S1502D	Е
R 5184			RS1/16S1602F		5630	(A,97,42)		RAB4CQ471J	_
R 5185	5 (A,48,14)		RS1/16S1502F	R	5631	(A,30,76)		RS1/16S104J	
R 5186	S (A,42,21)		RS1/16S1002F	R	5632	(A,30,77)		RS1/16S104J	
R 5187	(A,42,18)		RS1/16S1002F	R	5633	(A,30,79)		RS1/16S104J	
D 5466	(A 44 40)		D04/400404	_	F00.4	(4.00.04)		DO4/4004701	
R 5188	, , , , , ,		RS1/16S101J		5634	(A,30,81)		RS1/16S473J	
R 5189	· · · · /		RS1/16S153J		5637	(A,84,39)		RS1/16S471J	
R 5190			RS1/16S100J		5642	(A,79,51)		RS1/16S473J	
R 5191	· · · · /		RS1/16S153J		5646	(A,77,51)		RS1/16S473J	
R 5192	2 (A,41,14)		RS1/16S100J	R	5651	(A,79,56)		RAB4CQ471J	
R 5193	3 (A,38,13)		RS1/16S0R0J	D	5652	(A,79,53)		RS1/16S471J	
R 5194	· · · · /		RS1/16S0R0J		5655	(A,80,59)		RS1/16S4713 RS1/16S473J	_
R 5331			RS1/16S105J		5657	(A,94,37)		RS1/16S0R0J	F
R 5332			RS1/16S473J		5659	(A,79,58)		RS1/16S222J	
R 5333	, , , , , ,		RS1/16S183J		5681	(A,9,26)		RS1/16S104J	
1. 0000	(· ·,· · ·,· -/					(· .,5, 2 5)			
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	Circ	cuit Symbol and No.	Part No.	Circ	uit Symbol and No.	Part No.
					•	
	R 5682	(A,9,21)	RS1/16S104J	R 5803	(A,35,21)	RS1/16S333J
	R 5683	(A,74,12)	RS1/16S102J	R 5804	(A,51,24)	RS1/16S0R0J
	R 5684	(A,75,12)	RS1/16S102J	R 5805	(A,45,24)	RS1/16S0R0J
Α	R 5685	(A,66,7)	RS1/16S103J	R 5806	(A,35,26)	RS1/16S0R0J
	R 5686	(A,66,10)	RS1/16S103J	R 5835	(A,142,21)	RS1/16S684J
	5555	(* 1,00,10)		5555	(* 1, * 1=,= 1)	
	R 5687	(A,66,12)	RS1/16S103J	R 5840	(A,127,37)	RS1/16S0R0J
	R 5688	(A,66,15)	RS1/16S103J	R 5861	(A,124,21)	RS1/16S333J
	R 5700	(A,85,91)	RS1/16S470J	R 5862	(A,130,26)	RS1/16S1001D
			RS1/16S470J	R 5863	, ,	RS1/16S182J
	R 5701	(A,88,85)			(A,125,25)	
	R 5702	(A,11,12)	RS1/16SS101J	R 5864	(A,128,26)	RS1/16S682J
	R 5703	(A,48,11)	RS1/16SS101J	R 5865	(A,132,25)	RS1/16S201J
	R 5704	(A,49,4)	RS1/16SS101J	R 5866	(A,133,26)	RS1/16S6801F
	R 5705	(A,74,163)	RS1/16SS101J	R 5867	(A,123,28)	RS1/16S2001F
_	R 5706	(A,89,158)	RS1/16SS121J	R 5868	(A,125,29)	RS1/16S5100F
В	R 5707	(A,38,164)	RS1/16SS101J	R 5869	(A,128,22)	RS1/16S102J
	D 5700	(4.54.40)	D04/40000044	D 5070	(4.400.40)	D04/4004004D
	R 5708	(A,51,13)	RS1/16SS821J	R 5870	(A,128,18)	RS1/16S1001D
	R 5709	(A,70,12)	RS1/16S393J	R 5871	(A,130,22)	RS1/16S1600D
	R 5710	(A,67,12)	RS1/16S203J	R 5872	(A,131,20)	RS1/16S2700D
	R 5711	(A,62,12)	RS1/16S123J	R 5873	(A,108,22)	RS1/16S3303D
_	R 5712	(A,72,9)	RS1/16S124J	R 5874	(A,108,23)	RS1/16S1802F
		()			(, ==, =,	
	R 5713	(A,72,6)	RS1/16S393J	R 5875	(A,105,23)	RS1/16S821J
	R 5714	(A,82,166)	RS1/16S203J	R 5876	(A,109,25)	RS1/16S5102D
	R 5715	(A,81,167)	RS1/16S123J	R 5877	(A,125,34)	RS1/16S2202F
	R 5716	(A,11,165)	RS1/16S124J	R 5878	(A,124,32)	RS1/16S1802F
	R 5717		RS1/16S393J	R 5879	, ,	RS1/16S1002F
С	K 3/1/	(A,20,165)	K3 1/ 1033933	K 3019	(A,121,31)	K31/1031002F
-	R 5718	(A,36,167)	RS1/16S203J	R 5880	(A,115,16)	RS1/16S563J
	R 5719	(A,57,167)	RS1/16S123J	R 5881	(A,77,37)	RS1/16S0R0J
	R 5720	(A,72,13)	RS1/16S124J	R 5883	(A,81,37)	RS1/16S0R0J
	R 5721	(A,88,141)	RS1/16S472J	R 5884	(A,117,17)	RS1/16S150J
	R 5722	(A,88,144)	RS1/16S223J	R 5885	(A,121,18)	RS1/16S150J
	R 5724	(A,11,7)	RS1/16S124J	R 5886	(A,124,17)	RS1/16S273J
	R 5725	(A,20,8)	RS1/16S393J	R 5890	(A,123,25)	RS1/16S684J
	R 5726	(A,38,6)	RS1/16S203J	R 5901	(A,40,77)	RS1/16S103J
	R 5727	(A,41,6)	RS1/16S123J	R 5902	(A,40,74)	RS1/16S103J
	R 5731	(A,89,154)	RS1/16SS121J	R 5903	(A,33,83)	RS1/16S392J
	11 0701	(71,00,104)	1101/10001210	10000	(71,00,00)	1101/1000020
D	R 5732	(A,71,165)	RS1/16SS821J	R 5904	(A,34,83)	RS1/16S912J
	R 5733	(A,37,165)	RS1/16SS101J	R 5905	(A,33,80)	RS1/16S2703F
	R 5734	(A,89,149)	RS1/16S104J	R 5906	(A,40,84)	RS1/16S153J
			RS1/16S124J			
	R 5735	(A,87,153)		R 5907	(A,38,83)	RS1/16S153J
	R 5736	(A,88,156)	RS1/16SS121J	R 5951	(A,43,15)	RS1/16S471J
	R 5737	(A,88,138)	RS1/16S473J	R 5952	(A,31,19)	RS1/16S471J
			RS1/16S103J	R 5953		
	R 5738	(A,89,152)			(A,15,80)	RS1/10S911J
	R 5739	(A,86,138)	RS1/16S473J	R 5954	(A,33,78)	RS1/10S911J
	R 5740	(A,35,164)	RS1/16SS101J	R 5955	(A,40,15)	RS1/16S471J
	R 5741	(A,75,162)	RS1/16SS101J	R 5956	(A,34,19)	RS1/16S471J
	D == /:	(4.54.0)	D04/40004011	B	(4.40.00)	D04/400405 :
Е	R 5742	(A,51,3)	RS1/16SS101J	R 5957	(A,19,80)	RS1/10S102J
_	R 5743	(A,49,11)	RS1/16SS101J	R 5958	(A,30,77)	RS1/10S102J
	R 5744	(A,11,11)	RS1/16SS101J	R 5959	(A,37,15)	RS1/16S471J
	R 5745	(A,85,161)	RS1/16SS101J	R 5960	(A,37,19)	RS1/16S471J
	R 5746	(A,34,166)	RS1/16SS101J		, , ,	
		,		CAPACIT	ORS	
	R 5747	(A,78,163)	RS1/16SS820J	<u> </u>		
	R 5748	(A,53,3)	RS1/16SS820J	C 5001	(A,20,38)	CKSRYB105K6R3
	R 5749	(A,50,11)	RS1/16SS820J	C 5001	(A,24,38)	CKSSYF104Z16
	R 5750	(A,11,10)	RS1/16SS820J			
	R 5751	(A,83,162)	RS1/16SS101J	C 5003	(A,31,38)	CKSSYF104Z16
	1. 3/31	(17,00,102)	1101/10001010	C 5004	(A,33,38)	CKSSYF104Z16
	R 5752	(A,72,167)	RS1/16SS681J	C 5005	(A,32,37)	CKSSYF104Z16
_	R 5752	(A,72,107) (A,52,12)	RS1/16SS681J	C 5000	(A 24 20)	CK66/E404740
F	R 5802	(A,17,22)	RS1/16S0R0J	C 5006	(A,34,38)	CKSSYF104Z16
				C 5007	(A,36,38)	CKSSYF104Z16
	R 5803	(A,35,21)	RS1/16S333J	C 5008	(A,39,37)	CKSSYF104Z16
	R 5802	(A,17,22)	RS1/16S0R0J	C 5009	(A,40,38)	CKSSYF104Z16
				IC D4/LIC		

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Circ	cuit Symbol and No.	Part No.	C	Circuit Symbol and No.	Part No.	
C 5010	(A,39,40)	CKSSYF104Z16	C 5155		CCSRCH4R0C50	
C 5011	(A,41,43)	CKSSYF104Z16	C 5156	(A,60,33)	CKSRYB104K50	
C 5012	(A,40,44)	CKSSYF104Z16	C 5160	()))	CKSRYB104K50	Α
C 5013	(A,42,46)	CKSRYB392K50	C 5161		CKSRYB104K50	
C 5015	(A,44,47)	CKSRYB105K6R3	C 5162		CKSRYB104K50	
C 5016	(A,40,48)	CKSSYF104Z16	C 5163	,	CKSRYB105K6R3	
C 5017	(A,41,49)	CKSSYF104Z16	C 5164	,	CKSRYB105K6R3	
C 5018	(A,44,50)	CKSRYB104K50	C 5165		CKSRYB105K6R3	
C 5019	(A,44,51)	CKSRYB104K50	C 5166		CKSRYB104K50	
C 5020	(A,44,54)	CKSRYB104K50	C 5167		CKSRYB104K50	
C 5021	(A,40,52)	CKSSYF104Z16	C 5168	(A,54,28)	CKSRYB104K50	
C 5022	(A,46,57)	CKSSYF104Z16	C 5169	(A,35,31)	CKSRYB103K50	
C 5023	(A,45,57)	CKSSYF104Z16	C 5170	,	CSZSR220M16	
C 5024	(A,44,57)	CKSSYF104Z16	C 5171		CSZSR220M16	В
C 5025	(A,41,53)	CKSSYF104Z16	C 5181		CSZSR220M16	
C 5026	(A,41,54)	CKSSYF104Z16	C 5182		CKSRYB104K50	
0 0020	(71,41,04)	01.0011 104210	0 0102	(7,40,10)	ONOINT DIOTHOO	
C 5027	(A,41,55)	CKSSYF104Z16	C 5183	(A,51,15)	CSZSR4R7M25	
C 5028	(A,41,56)	CKSSYF104Z16	C 5184	(A,48,16)	CKSRYB104K50	
C 5029	(A,41,57)	CKSSYF104Z16	C 5186	(A,48,22)	CKSRYB104K50	_
C 5030	(A,44,60)	CKSRYB104K50	C 5188		CKSRYB104K50	
C 5031	(A,43,57)	CKSSYF104Z16	C 5311	,	DCH1165	
C 5032	(A,41,58)	CKSSYF104Z16	C 5332	· · · · · ·	DCH1165	
C 5033	(A,41,59)	CKSSYF104Z16	C 5334	(A,58,83)	CKSRYB104K50	
C 5034	(A,41,60)	CKSSYF104Z16	C 5335	(A,52,83)	CKSQYB105K16	
C 5035	(A,43,66)	CKSRYB103K50	C 5336	(A,60,70)	CKSRYB104K50	С
C 5036	(A,45,64)	CCSRCH4R0C50	C 5337		CKSQYB105K16	
0 5007	(4.00.00)	01/00//5404740	0.5000	(4.05.70)	01/00//04051/40	
C 5037	(A,39,62)	CKSSYF104Z16	C 5339	,	CKSQYB105K16	
C 5040	(A,39,63)	CKSSYF104Z16	C 5340		CKSRYB562K50	
C 5042	(A,37,64)	CCSRCH181J50	C 5341		CKSRYB152K50	
C 5045	(A,36,67)	CCSRCH9R0D50	C 5343		CKSRYB473K25	
C 5046	(A,33,66)	CCSRCH9R0D50	C 5344	(A,65,83)	CFHXSQ221J50	
C 5047	(A,30,63)	CKSSYF104Z16	C 5345	(A,71,81)	CKSRYB473K25	
C 5048	(A,29,64)	CKSSYF104Z16	C 5346		CKSRYB103K50	
C 5049	(A,24,63)	CKSSYF104Z16	C 5347	,	DCH1165	
C 5050	(A,20,64)	CKSRYB105K6R3	C 5348	· · · · · ·	DCH1165	
C 5051	(A,16,55)	CKSSYF104Z16	C 5349		CKSQYB105K16	D
0 0001	(71, 10,00)	01.0011 104210	0 0040	(11,00,12)	CITOGLE	
C 5052	(A,16,47)	CKSSYF104Z16	C 5350	(A,88,72)	CKSQYB105K16	
C 5054	(A,24,34)	CCSRCH101J50	C 5351	(A,120,69) 15pF	CCG1194	
C 5055	(A,15,61)	CKSRYB104K50	C 5352	(A,81,72)	CKSRYB153K25	
C 5056	(A,18,68)	CCSRCH271J50	C 5353	(A,67,69)	CKSRYB104K50	
C 5057	(A,32,35)	CCSSCH220J50	C 5354	(A,84,75)	CKSRYB104K50	
0	(4.5.1.5.)			(4.0.4.70)	01/07/70 10/1/70	
C 5061	(A,21,71)	CKSRYB104K50	C 5355	, , ,	CKSRYB104K50	
C 5063	(A,62,29)	CKSRYB104K50	C 5356	, , ,	CKSRYB474K10	
C 5065	(A,61,25)	CCSRCH120J50	C 5357		CKSRYF104Z50	
C 5071	(A,56,42)	CSZS100M10	C 5371		CKSRYF104Z50	
C 5074	(A,45,41)	CKSRYB105K6R3	C 5372	(A,69,65)	CKSRYF104Z50	Е
C 5075	(A,54,41)	CKSRYB105K6R3	C 5601	(A,105,40)	CSZSR330M10	
C 5076	(A,48,42) 68µF/6.3V	CCH1440	C 5602	, ,	CKSRYB104K50	
C 5081	(A,57,49)	CCSRCH101J50	C 5603	,	CKSRYB104K50	
C 5081	(A,57,49) (A,57,50)	CCSRCH101J50	C 5604		CKSRYB105K6R3	
C 5082		CCSRCH101J50	C 5605	, , ,	CKSRYB104K50	
C 5065	(A,57,52)	CCSRCHIUIJOU	C 5605	(A,88,43)	CNSK10104N30	•
C 5101	(A,51,49)	CKSYF106Z10	C 5614	(A,124,43)	CKSRYB222K50	_
C 5102	(A,49,60)	CCSRCH470J50	C 5615		CKSRYB222K50	
C 5103	(A,49,62)	CCSRCH470J50	C 5616		CKSRYB222K50	
C 5104	(A,52,56)	CKSRYB104K50	C 5617		CKSRYB222K50	
C 5105	(A,50,53)	CSZS100M10	C 5618	, ,	CKSRYB222K50	
0 5454	(A CO OO)	00700000110	0.50:5	(A 400 50)	OKODYDOGG!(EG	F
C 5151	(A,63,33)	CSZSR220M16	C 5619	, ,	CKSRYB223K50	
C 5152	(A,48,32)	CKSRYB103K50	C 5621	, , ,	CCSRCH102J50	
C 5153	(A,47,35)	CCSRCH4R0C50	C 5622		CCSRCH102J50	
C 5154	(A,47,30)	CCSRCH4R0C50	C 5623	(A,9,20)	CCSRCH102J50	
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	Circ	cuit Symbol and No.	Part No.	Circ	uit Symbol and No.	Part No.
	C 5624	(A,8,24)	CCSRCH102J50	C 5877	(A,102,20)	CKSQYF105Z25
	C 5625	(A,103,64)	CKSRYB222K50	C 5881	(A,96,7)	CKSQYF105Z25
Α	C 5626	(A,11,54)	CKSRYB222K50	C 5882	(A,96,19)	CKSQYF105Z25
	C 5627	(A,100,61)	CKSRYB222K50	C 5883	(A,129,37)	CKSQYF105Z25
	C 5628	(A,102,61)	CKSRYB222K50	C 5884	(A,109,28)	CKSRYB103K50
	C 5651	(A,73,60)	CKSRYB104K50	C 5885	(A,125,6) 68µF/6.3V	CCH1440
	C 5670	(A,77,8)	CKSRYF104Z50	C 5886	(A,107,26)	CKSYF475Z16
	C 5685	(A,75,15)	CCSRCH102J50	C 5887	(A,114,33)	CKSRYF474Z16
	C 5686	(A,74,15)	CCSRCH102J50	C 5888	(A,118,33)	CKSRYF474Z16
	C 5687 C 5700	(A,69,6) (A,86,96)	CKSRYB105K6R3 CKSRYB105K6R3	C 5889 C 5890	(A,121,33) (A,116,37)	CKSRYF474Z16 CKSQYF105Z25
		, , ,	CI/CDVD404I/F0			
	C 5701 C 5702	(A,70,167) (A,64,11)	CKSRYB104K50 CKSRYB104K50	C 5891 C 5892	(A,119,37) (A,121,37)	CKSQYF105Z25 CKSQYF225Z16
В	C 5702	(A,87,87)	CKSRYB104K50	C 5893	(A,123,37) (A,123,37)	CKSQ1F225Z16
	C 5704	(A,87,148)	CKSQYB475K6R3	C 5894	(A,133,28)	CKSQYF105Z25
	C 5705	(A,85,158)	CKSSYF104Z16	C 5895	(A,125,27)	CKSRYB393K16
	C 5801	(A 04 07)	CSZSR4R7M25	C 5896	(A,129,30)	CSZS100M16
	C 5801	(A,21,27) (A,20,23)	CKSRYB104K50	C 5897	(A,130,23)	CKSRYB473K25
_	C 5803	(A,25,27)	CSZS100M10	C 5898	(A,128,20)	CCSRCH331J50
	C 5804	(A,23,23)	CKSRYB104K50	C 5899	(A,128,25)	CKSRYB103K50
	C 5805	(A,28,27)	CSZSR330M10	C 5900	(A,125,23)	CKSRYB393K16
	C 5806	(A,27,24)	CKSRYB104K50	C 5901	(A,40,82)	CKSRYB104K50
	C 5807	(A,31,27)	CSZSR33M35	C 5902	(A,37,75)	CSZSR330M10
	C 5808	(A,30,24)	CKSRYB473K25	C 5903	(A,34,76)	CFHXSQ562J16
С	C 5809	(A,21,32)	CKSSYF104Z16	C 5904	(A,45,77)	CSZSR330M10
	C 5810	(A,25,32)	CKSSYF104Z16	C 5905	(A,36,83)	CCSRCH102J50
	C 5819	(A,123,17)	CKSRYB104K50	K		
	C 5820	(A,125,21)	CCSRCH101J50			
	C 5821	(A,125,19)	CKSRYB103K50	Unit Nui	mber:CWM9921	
	C 5822 C 5823	(A,131,32) (A,122,30)	CKSRYB104K50 CKSRYB393K16	Unit Nar	me:Connector Un	it
	C 5824	(A,116,31)	CKSRYB102K50	MISCELL	ANEOUS	
	C 5825	(A,116,31) (A,125,31)	CKSRYB105K6R3			
	C 5828	(A,115,17)	CKSRYB104K50	D 2801	(A,25,25) Diode	UDZS5R6(B)
	C 5829	(A,118,17)	CKSRYB102K50	D 2802	(B,24,26) Diode	UDZS5R6(B)
D	C 5830	(A,119,17)	CKSRYB105K6R3	D 2803	(A,25,20) Diode	HZU12(B2)
		, ,		D 2804	(A,25,23) Diode	HZU12(B2)
	C 5831	(A,28,32)	CKSSYF104Z16	D 2805	(A,38,28) Diode	UMZ6R8N
	C 5832	(A,32,32)	CKSRYB473K25		(4.0=00) Bt I	
	C 5836	(A,139,19)	CSZS100M16	D 2806	(A,25,32) Diode	UMZ6R8N
	C 5841	(A,139,21)	CKSRYF105Z10	D 2807 D 2809	(A,48,14) Diode (A,48,10) Diode	UMZ6R8N UMZ6R8N
	C 5842	(A,136,20)	CKSRYB104K50	D 2811	(A,53,10) Diode	UMZ6R8N
	C 5843	(A,140,31)	CSZS100M10	D 2812	(A,53,14) Diode	UMZ6R8N
	C 5844	(A,140,32)	CKSRYB104K50		(,, ,	
	C 5845	(A,140,29)	CKSRYB104K50	D 2813	(B,44,23) Diode	UDZS5R6(B)
	C 5852	(A,101,6) 33µF/10V	CCH1586	D 2814	(B,44,29) Diode	UDZS5R6(B)
Е	C 5854	(A,99,6)	CKSRYB104K50	L 2801	(A,36,8) Inductor	CTF1334
_	_			L 2802	(A,34,8) Inductor	CTF1334
	C 5860	(A,116,10)	CKSRYB103K50	L 2803	(A,33,8) Inductor	CTF1334
	C 5861 C 5862	(A,128,6) (A,116,7) 10µF	CKSRYB104K50 DCH1165	L 2804	(A,31,8) Inductor	CTF1334
	C 5863	(A,116,7) 10μF (A,112,7) 10μF	DCH1165 DCH1165	€ 2004 (!\FU2802	(A,21,7) Fuse 4A	CEK1260
	C 5864	(A,109,7) 10μF	DCH1165	EF2801	(A,25,30) EMI Filter	CCG1067
	C 5865	(A,111,13)	CKSRYB103K50	RESISTO	RS	
	C 5866	(A,111,13) (A,128,28)	CKSRYB104K50		·	
	C 5867	(A,112,18)	CKSRYB105K6R3	R 2801	(A,31,26)	RS1/16S102J
	C 5868	(A,112,19)	CKSRYB103K50	R 2802	(A,33,26)	RS1/16S102J
	C 5869	(A,108,17)	CKSRYB472K50	R 2803	(A,31,22)	RS1/16S0R0J
F				R 2804	(A,33,22)	RS1/16S102J
•	C 5870	(A,108,19)	CKSRYB472K50	R 2811	(A,38,24)	RS1/10S0R0J
	C 5873	(A,112,30)	CKSSYF104Z16			
	C 5875	(A,102,19)	CKSRYB104K50	R 2812	(A,38,21)	RS1/10S0R0J
	C 5876	(A,102,17)	CKSQYF105Z25	R 2813	(A,43,10)	RS1/16S102J
•	160	1 -	AVIC-E		3 -	4

	5	6	-		7	8	
	Circuit Symbol and No.	Part No.		Circ	uit Symbol and No.	Part No.	
R 2	2814 (A,22,19)	RS1/16S0R0J					
				MISCELLA	<u>ANEOUS</u>		
CAI	<u>PACITORS</u>			10 101	(4 (2 22) 12	555.004	Α
0.0	2004 (4.40.40)	01/00/07/04/00//50		IC 401	(A,16,29) IC	PE5430A	
	2801 (A,19,19)	CKSRYB102K50		IC 402	(A,4,39) IC	S-80827CNNB-B8M	
	2802 (A,20,19)	CKSRYB102K50		IC 404	(A,4,36) IC	TC7S08F	
	2804 (A,17,19)	CKSRYB102K50		IC 601	(B,11,18) IC	BA033FP	
	2809 (A,55,6)	CCSRCH101J50 CKSQYF104Z50		IC 602	(B,10,71) IC	BA18BC0FP	
C 2	2810 (A,50,6)	CK5Q1F104250		IC 1101	(A,15,82) IC	AN8703FH	_
				IC 1101	(A,46,39) IC	BA5985FM	
				IC 1201	(A,45,56) IC	BA6859AFP-Y	
				IC 1202	(A,16,56) IC	MNZS26EDCUB	
lln	it Number:CZW3097			Q 1101	(B,36,104) Transistor	2SB1260	
	it Name:Main PCB Uni			Δ	(2,00,101)	202.200	
Un	iit Name:Wain PCB Unit	Į.		Q 1102	(B,36,98) Transistor	2SB1260	
				Q 1103	(B,25,105) Transistor	UN2211	В
MIS	SCELLANEOUS			Q 1104	(A,24,105) Transistor	2SB709A	
				Q 1105	(A,27,105) Transistor	2SD601A	
IC 1		BA6288FS	_	D 1101	(B,33,104) Diode	1SS355	
IC 2		S-812C50AMC-C3	3E				
IC 3		TC7W14FU		D 1102	(B,33,96) Diode	1SS355	
IC 4	•	GP2L24B		D 1301	(B,25,55) Diode	UDZ2R7(B)	
IC 5	5 Photo-interrupter	GP2L24B		D 1302	(B,9,81) Chip LED	CL205IRXTU	
Q 1	1 Transistor	2SB1185		L 401	(A,9,17) Inductor	CTF1395	
Q 1		IMX1		L 402	(A,4,33) Inductor	CTF1410	
D 1		HZU6R2(B2)		L 1301	(B,15,55) Inductor	CTF1409	
L 2		LCTAW2R2J2520		L 1301	(B,8,40) Inductor	CTF1409	
FU1		CEK1304		L 1302	(B,15,58) Inductor	CTF1395	С
				L 1305	(B,6,70) Inductor	CTF1409	
RES	<u>SISTORS</u>			X 401	(A,4,29) Ceramic Resonator 16.000MH:		
R 1		RS1/16S223J		X 1301	(A,33,64) Ceramic Resonator 16.934MH	tz CSS1603	
R 2		RS1/8S271J					_
R 3		RS1/16S332J		RESISTOR	<u>RS</u>		
R 4		RS1/16S471J			44		
R 5		RS1/16S222J		R 401	(A,28,23)	RS1/16SS104J	
D 4	1.4	DC4/40C0D0 I		R 403	(A,41,26)	RS1/16SS473J	
R 1 R 1		RS1/10S0R0J RS1/16S222J		R 404	(B,6,36)	RS1/16SS473J	
R 1		RS1/16S222J		R 405	(B,6,38)	RS1/16SS105J	
R 1		RS1/16S821J		R 406	(B,11,31)	RS1/16SS103J	D
R 1		RS1/16S821J		R 407	(A,2,20)	RS1/16SS104J	
		1101/1000210		R 410	(A,26,39)	RS1/16SS473J	
R 1	19	RS1/16S102J		R 414	(A,27,27)	RS1/16SS473J	
R 2		RS1/16S102J		R 415	(A,19,15)	RS1/16S1002D	
R 2		RS1/16S102J		R 418	(A,32,23)	RS1/16SS473J	
R 2		RS1/16S102J			(, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
				R 419	(A,28,24)	RS1/16SS221J	
CAI	PACITORS PACITORS			R 420	(A,29,27)	RS1/16SS103J	
				R 421	(A,29,28)	RS1/16SS103J	
C 1	1	CKSRYB153K50		R 423	(A,29,30)	RS1/16SS103J	
C 2	2	CZC5169		R 424	(A,26,32)	RS1/16SS221J	
C 3	3	CKSRYB105K10					E
C 7	7	CEVW100M16		R 427	(A,29,25)	RS1/16SS103J	
C 8	3	CKSRYB104K50		R 433	(B,7,63)	RS1/16SS473J	
				R 434	(A,27,22)	RS1/16SS223J	
C 9		CKSRYB473K50		R 435	(A,26,23)	RS1/16SS222J	
C 1		CKSRYB473K50		R 436	(A,33,30)	RS1/16SS101J	
C 1		CEVW100M16		D 407	(4.22.24)	DC4/400C404 I	
C 1		CEVW100M16		R 437	(A,33,31)	RS1/16SS101J	_
C 1	13	CKSRYB104K50		R 601 R 603	(B,7,64) (A,4,19)	RS1/16SS102J RS1/16SS820J	
C 1	14	CKSRYB104K50		R 603 R 604	(A,4,19) (A,8,10)	RS1/16SS820J	
U 1	I *	CN3K1D1U4K5U		R 605	(A,9,10)	RS1/16SS820J	
	J			11 000	(, ,, 0, 10)	. 10 1/ 10000200	
U	2			R 606	(A,10,10)	RS1/16SS220J	F
Un	it Number:CWX3178			R 607	(A,11,10)	RS1/16SS103J	
		· (MC2D)		R 608	(A,19,11)	RS1/16SS101J	
UII	it Name:DVD Core Unit	(NCCINI)		R 612	(B,9,10)	RAB4CQ820J	
_	_		AVIC-I	D1/UC	_	0	161 _

a 7 **b** 8

		1 -	2	-	3	4
	Circ	cuit Symbol and No.	Part No.	(Circuit Symbol and No.	Part No.
	R 615	(B,11,10)	RAB4CQ220J	R 1242		RS1/16SS243J
	K 013	(0,11,10)	NAD4CQ2200	K 1242	(6,17,0)	NS 1/10332433
	R 616	(B,19,11)	RAB4CQ220J	R 1243	(B,12,84)	RS1/16S391J
Α	R 617	(B,21,14)	RAB4CQ220J	R 1244	(B,9,84)	RS1/16S471J
	R 618	(B,24,11)	RAB4CQ220J	R 1245		RS1/16SS105J
	R 620	(A,14,11)	RS1/16SS103J	R 1301		RS1/16SS222J
	R 625	(A,5,19)	RS1/16SS220J	R 1323		RS1/16SS221J
		(, , ,			, , ,	
	R 626	(A,4,22)	RS1/16SS820J	R 1324	,	RS1/16SS221J
	R 627	(A,7,19)	RS1/16SS220J	R 1334		RS1/16SS221J
_	R 629	(B,7,13)	RS1/16SS103J	R 1338	(B,26,57)	RS1/16SS472J
	R 1101	(A,24,97)	RS1/16SS101J	R 1339	(A,32,56)	RS1/16SS273J
	R 1102	(B,40,101)	RS1/16SS3R9J	R 1340	(B,26,58)	RS1/16SS472J
	D 4400	(5.40.404)	D04/40000D04	D 1011	(4.00.57)	D04/40000701
	R 1103	(B,42,101)	RS1/16SS3R9J	R 1341		RS1/16SS273J
В	R 1104	(B,42,102)	RS1/16SS3R9J	R 1342	* ' '	RS1/16SS273J
	R 1105	(B,40,102)	RS1/16SS3R9J	R 1344		RS1/16SS273J
	R 1106	(A,21,97)	RS1/16SS330J	R 1349		RS1/16SS562J
	R 1107	(B,40,97)	RS1/16SS3R9J	R 1350	(B,27,63)	RS1/16SS242J
	R 1108	(B,40,98)	RS1/16SS3R9J	R 1352	(B,24,64)	RS1/16S2702D
	R 1109	(B,40,99)	RS1/16SS3R9J	R 1353	,	RS1/16SS102J
	R 1110	(B,40,100)	RS1/16SS3R9J	R 1360		RS1/16SS153J
	R 1110	(B,17,104)	RS1/16SS272J	R 1361		RS1/16SS105J
	R 1112	(B,17,104) (B,18,104)	RS1/16SS472J	R 1362	,	RS1/16SS1033 RS1/16SS473J
	K IIIZ	(D, 10, 104)	K31/10334723	K 1302	(A, I, I, S)	NS 1/10334/30
	R 1113	(B,23,103)	RS1/16SS102J	R 1363	(A,3,75)	RS1/16SS101J
	R 1124	(A,5,85)	RS1/16SS273J	R 1364	,	RS1/16SS123J
	R 1125	(A,5,84)	RS1/16SS273J	R 1365		RS1/16SS101J
С	R 1126	(A,6,81)	RS1/16SS224J	R 1367		RS1/16SS473J
	R 1133	(A,6,79)	RS1/16S2402D	R 1369		RS1/16SS473J
		(* ',=',-')			(=,,)	
	R 1134	(A,6,77)	RS1/16S1002D	R 1377	(A,2,68)	RS1/16SS103J
	R 1135	(A,2,77)	RS1/16S2702D	R 1378		RS1/16SS103J
	R 1140	(A,23,83)	RS1/16SS105J	R 1379		RS1/16SS0R0J
	R 1141	(A,25,85)	RS1/16SS105J	R 1380		RS1/16SS681J
	R 1142	(B,17,80)	RS1/16SS105J	R 1381	,	RS1/16SS105J
	R 1151	(B,17,93)	RS1/16SS103J	R 1383	,	RS1/16SS0R0J
	R 1152	(B,13,90)	RS1/16SS103J	R 1384	,	RS1/16SS103J
	R 1201	(A,41,49)	RS1/16SS221J	R 1385		RS1/16SS103J
D	R 1202	(A,38,45)	RS1/16SS393J	R 1386	(A,-1,63)	RS1/16SS103J
D	R 1203	(A,39,45)	RS1/16SS303J	0.5		
	D 4005	(D. 44.42)	DC4/4CCC0D0 I	CAPAC	CITORS	
	R 1205	(B,44,43)	RS1/16SS0R0J			
	R 1206	(B,46,44)	RS1/16SS102J	C 401	(A,20,39)	CKSRYB474K10
	R 1209	(B,46,38)	RS1/16SS221J	C 402	(B,6,39)	CKSSYB104K10
_	R 1210	(B,50,42)	RS1/16SS393J	C 403	(B,6,41)	CKSSYB103K16
	R 1211	(B,51,44)	RS1/16SS393J	C 404	(A,4,32)	CKSRYB105K10
	R 1212	(B,50,45)	RS1/16SS393J	C 405	(A,11,17)	CKSRYB474K10
	R 1212 R 1213	(A,53,47)	RS1/16SS393J	0.400	(4.40.40)	CKCDVD 47 4K4 0
	R 1214	(B,44,47)	RS1/16SS221J	C 406	(A,19,19)	CKSRYB474K10
	R 1214 R 1219	(A,51,50)	RS1/16SS221J	C 407	(A,16,14)	CKSSYB103K16
	R 1219	(B,46,39)	RS1/16SS221J	C 408	(A,19,16)	CKSRYB474K10
E	17 1220	(0,40,39)	131/10002210	C 410	(B,6,37)	CKSSYB103K16
	R 1221	(A,51,60)	RS1/16S1802D	C 411	(B,6,35)	CKSSYB104K10
	R 1222	(A,27,79)	RS1/16SS221J	C 601	(B,8,27) 10µF/10V	CCH1349
	R 1223	(A,47,64)	RS1/16SS2R2J	C 602	(B,12,27) 10µF/10V	CCH1349
	R 1224	(A,48,64)	RS1/16SS2R2J	C 603	(B,14,27)	CKSSYB102K50
	R 1228	(A,49,64)	RS1/16SS2R2J	C 604	(B,6,27)	CKSRYB474K10
		(', '-, '- ',		C 605	(B,11,63)	CSZSR470M6R3
	R 1231	(B,15,7)	RS1/16SS822J	0 000	(0,11,00)	GOZGIC47 GIVIOLO
	R 1232	(B,14,7)	RS1/16SS822J	C 606	(B,7,65)	CKSSYB102K50
	R 1233	(B,13,8)	RS1/16SS822J	C 607	(B,5,78)	CKSRYB474K10
	R 1234	(B,15,10)	RS1/16SS563J	C 607	(A,15,13)	CCSSCH181J25
	R 1235	(B,14,10)	RS1/16SS243J	C 1101		CSZSC470M16
F		,		C 1101		CSZSR470M6R3
'	R 1236	(B,13,10)	RS1/16SS683J	302	v	
	R 1238	(A,50,64)	RS1/16SS2R2J	C 1103	(B,30,105)	CKSSYB104K10
	R 1239	(A,51,64)	RS1/16SS2R2J	C 1104		CKSSYB103K16
	R 1241	(A,15,11)	RS1/16SS822J		,	
	162			AVIC-D1/UC		
	102	1 -	2	-	3	4

		5	6	-	7	8		
	Circu	uit Symbol and No.	Part No.	Circ	uit Symbol and No.	Part No.		
C	1105	(A,22,100)	CSZSR101M6R3	C 1335	(B,18,63)	CKSSYB562K25		
C	1106	(B,32,100)	CKSSYB104K10	C 1336	(A,18,72)	CKSSYB104K10		
C	1107	(B,31,95)	CKSSYB103K16	C 1337	(A,16,72)	CKSRYB102K50		
								Α
	1108	(B,23,105)	CKSSYB104K10	C 1338	(B,16,69)	CKSRYB102K50		
C	1109	(A,21,105)	CKSRYB473K25	C 1339	(A,15,72)	CKSRYB102K50		
C	1110	(A,30,106)	CKSRYB473K25	C 1340	(A,13,71)	CKSSYB104K10		
C	1111	(A,32,103)	CKSSYB103K16	C 1341	(B,16,66)	CCSSCH101J50		
C	1112	(A,22,94)	CKSRYB105K10	C 1342	(B,16,65)	CKSRYB391K50		
C	1113	(A,24,94)	CKSRYB105K10	C 1343	(B,16,63)	CKSRYB471K50		
C	1114	(A,31,102)	CKSSYB103K16	C 1344	(B,16,62)	CKSRYB331K50		
C	1121	(A,6,83)	CKSSYB221K50	C 1346	(A,8,71)	CKSRYB224K10		
C	1122	(A,2,79)	CKSRYB393K16	C 1347	(A,1,61)	CKSSYB104K10		
	1124	(A,13,74)	CKSSYB221K50	C 1348	(A,1,57)	CKSSYB104K10		
		, ,						
C	1125	(B,16,76)	CKSSYB104K10	C 1349	(A,2,56)	CKSSYB104K10		В
	1126	(A,15,75)	CKSSYB104K10	C 1350	(A,2,52)	CKSSYB104K10		
	1127	(B,17,76)	CKSSYB104K10	C 1351	(A,1,48)	CKSSYB104K10		
	1128	(B,15,80)	CKSRYB472K50	C 1352	(A,1,46)	CKSSYB104K10		
	1129	(A,22,79)	CKSSYB104K10	C 1355	(B,2,59)	CSZS100M6R3		
	7 1125	(1,22,73)	OROOT DIOTRIO	0 1000	(B,2,33)	002010010101		
C	1132	(A,25,83)	CKSRYB561K50					_
	1133	(A,24,86)	CKSRYB561K50	D				
	1134	(A,23,86)	CKSRYB273K16		mber:CWX3154			
	1135	(B,20,81)	CKSSYB473K10					
	1136	(A,22,90)	CKSSYB104K10	Unit Nar	ne:Compound Uni	t(A)		
	7 1130	(1,22,30)	OROOT DIOTRIO					
	1137	(A,22,89)	CKSSYB104K10	Q 1299	Photo-taransistor	CPT231SCTD		
	5 1138	(A,14,89)	CKSSYB104K10	S 1201	Spring Switch(12cm)	CSN1069		С
				S 1202	Spring Switch(8cm)	CSN1069		•
	1139	(A,16,90)	CKSSYB104K10	S 1203	Spring Switch(DISC SENS)	CSN1069		
	1201	(A,39,47)	CKSSYB104K10	S 1204	Spring Switch(DISC SENS)	CSN1070		
C	1204	(B,1,72)	CEVW101M16	0 .20.	Spg Ss(2.00 02.10)	00.11.07.0		
_	1005	(4.20.26)	CIZEDVD404IZ46	S 1205	Spring Switch(8cm)	CSN1070		
	1205	(A,39,36)	CKSRYB104K16	R 1298	Spg 2(2 s)	RS1/16S0R0J		_
	1206	(B,45,35)	CKSRYB103K50	R 1299		RS1/16S0R0J		
	1207	(B,45,34)	CKSRYB103K50			110 17 10001100		
	1208	(B,51,42)	CCSSCH5R0C50					
C	1209	(B,51,45)	CCSSCH470J50	13				
_		(4 = 4 = 5)	01/00//040 ##	Unit Nu	mber:CWX3156			
	1210	(A,51,52)	CKSSYB104K10			. (5)		
	1301	(A,6,42)	CKSSYB104K10	Unit Nar	ne:Compound Uni	t(B)		D
	1302	(A,13,41)	CKSSYB104K10					D
	1303	(A,15,41)	CKSRYB224K10	S 1206	Switch(CLAMP)	CSN1051		
C	1304	(A,20,42)	CKSSYB104K10		,			
_				B				
	1305	(A,23,41)	CKSRYB224K10					
	1306	(A,32,45)	CKSSYB471K50	Unit Nu	mber:CWX3096			
	1307	(A,33,52)	CKSSYB104K10			40.4\		
	1308	(A,31,52)	CKSRYB224K10	Unit Nai	ne:CD Core Unit(S	10.1)		
C	1309	(A,35,54)	CKSSYB104K10					
_				MISCELL.	<u>ANEOUS</u>			
	1310	(A,35,55)	CKSSYB104K10					
	1311	(A,35,57)	CKSSYB103K16	IC 201	(A,39,24) IC	UPD63763GJ		
	1312	(A,37,58)	CKSSYB103K16	IC 203	(B,45,78) IC	NJM2885DL1-33		Е
	1313	(A,30,61)	CKSSYB104K10	IC 301	(A,49,88) IC	BA5835FP		-
C	1314	(A,34,61)	CKSRYB224K10	IC 701	(A,48,51) IC	PE5454B		
				IC 703	(A,30,44) IC	S-812C33AUA-C2N		
C	1315	(B,27,65)	CKSRYB102K50		,			
C	1316	(B,24,65)	CKSRYB393K16	Q 101	(A,20,22) Transistor	2SA1577		
C	1317	(A,30,68)	CKSSYB104K10	Q 701	(B,62,59) Transistor	UN2111		
C	1318	(A,30,71)	CKSSYB103K16	L 203	(A,53,32) Inductor	CTF1389		
	1319	(A,27,77)	CKSSYB104K10	L 207	(A,53,31) Inductor	CTF1389		
			-	L 209	(A,26,20) Inductor	CTF1389		
C	1320	(A,24,78)	CKSSYB103K16	L 203	(- 1,20,20) Hiddotol	311 1000		
	1329	(A,22,72)	CKSSYB104K10	L 703	(A,64,49) Inductor	CTF1389		
	1330	(B,24,67)	CKSRYB183K50	X 201	(A,51,35) Ceramic Resonator 16.934MHz			
	1331	(B,21,66)	CCSSCH470J50					_
	1332	(A,20,72)	CKSRYB224K10	X 701	(A,59,53) Ceramic Resonator 4.00MHz			F
		· ·,·,· -/	SEE IIIIO	S 901 S 903	(A,15,43) Switch(HOME) (B,53,100) Switch(DSCSNS)	CSN1067		
(1333	(A,19,72)	CKSRYB105K10	S 903	(D,00,100) SWIICH(DOCONO)	000111000		
	1334	(B,15,67)	CKSRYB102K50					
	-	· · · / /		AV/IC D4/UC				
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_		-	U	_	-	U		_

		'	2		3	7
	<u>Ci</u>	rcuit Symbol and No.	Part No.	<u>Circ</u>	cuit Symbol and No.	Part No.
	S 904	(B,35,108) Switch(12EJ)	CSN1067	R 773	(B,39,37)	RAB4CQ221J
	S 905	(B,48,109) Switch(8EJ)	CSN1067	R 777	(B,48,51)	RS1/16SS221J
	• 555	(2, 10, 100)	33.1.66.	R 778	(B,48,52)	RS1/16SS221J
Α	RESIST	OPS		R 779	(B,45,54)	RS1/16SS221J
	KESIST	<u>OK3</u>		R 901	(B,52,65)	RAB4CQ221J
	D 404	(4.00.04)	D04/400D0D41	17 301	(0,02,00)	TADTOQ22 10
	R 101	(A,22,24)	RS1/10SR2R4J	R 905	(B,54,60)	RS1/16SS221J
	R 102	(A,22,26)	RS1/10SR2R4J	R 906	(B,56,68)	RS1/16SS221J
	R 103	(A,25,25)	RS1/10SR2R7J	R 908	,	RS1/16SS0R0J
	R 201	(A,53,16)	RS1/16SS102J		(B,45,69)	
	R 202	(A,55,21)	RS1/16SS333J	R 910	(B,44,69)	RS1/16SS0R0J
				R 911	(B,40,73)	RS1/16SS102J
	R 221	(B,31,18)	RS1/16SS103J	0.4.04.017		
	R 222	(B,26,18)	RS1/16SS103J	<u>CAPACIT</u>	<u>ORS</u>	
	R 225	(A,27,8)	RS1/16SS103J			
	R 226	(A,27,7)	RS1/16SS393J	C 103	(B,14,8) 100µF/16V	CCH1504
В	R 227	(B,33,10)	RS1/16SS562J	C 105	(A,19,15)	CKSSYB104K10
Б				C 108	(B,39,16)	CKSSYB104K10
	R 228	(B,36,8)	RS1/16SS122J	C 110	(A,18,6)	CKSSYB104K10
	R 229	(B,34,8)	RS1/16SS472J	C 201	(A,51,14)	CKSSYB102K50
	R 232	(B,35,10)	RS1/16SS122J			
	R 241	(B,42,28)	RS1/16SS333J	C 202	(B,50,17)	CKSSYB104K10
	R 243	(B,44,28)	RS1/16SS333J	C 203	(A,55,23)	CKSSYB104K10
_		(=, : :,==)	110.7.1000000	C 204	(B,28,22)	CEVW220M6R3
	R 245	(A,39,38)	RS1/16SS333J	C 205	(A,53,25)	CKSSYB104K10
	R 301	(A,48,78)	RS1/16SS183J	C 208	(B,44,25)	CKSSYB104K10
	R 301	(A,42,78)	RS1/16SS822J	C 200	(0,44,23)	CN3311104N10
		,		C 200	(A E4 20)	CKCCAD404K40
	R 304	(A,50,78)	RS1/16SS183J	C 209	(A,54,29)	CKSSYB104K10
	R 305	(A,42,77)	RS1/16SS822J	C 212	(A,45,37)	CKSRYB105K10
С	5	(4.00.00)	50.44.500.455.1	C 216	(A,25,8)	CKSSYB332K50
·	R 307	(A,36,85)	RS1/16SS183J	C 217	(A,28,12)	CKSSYB104K10
	R 308	(A,32,83)	RS1/16SS183J	C 218	(A,25,7)	CKSSYB473K10
	R 309	(A,38,89)	RS1/16SS183J			
	R 310	(A,35,88)	RS1/16SS183J	C 219	(A,34,7)	CKSSYB104K10
	R 601	(B,43,59)	RS1/16S101J	C 220	(A,33,11)	CKSSYB182K50
				C 221	(B,35,6)	CKSSYB104K10
	R 602	(B,41,62)	RS1/16S101J	C 222	(B,35,8)	CCSSCH560J50
	R 606	(B,44,67)	RS1/16S0R0J	C 223	(B,33,8)	CCSSCH4R0C50
	R 607	(B,43,56)	RS1/16SS0R0J			
	R 608	(B.36,67)	RS1/16SS0R0J	C 224	(B,40,16)	CKSSYB104K10
	R 705	(B,50,59)	RS1/16SS221J	C 225	(B,45,14)	CKSSYB103K16
		(, , ,		C 226	(B,43,12)	CCSSCH680J50
	R 706	(B,57,61)	RS1/16SS221J	C 227	(A,45,10)	CCSSCH470J50
D	R 707	(A,62,47)	RS1/16SS473J	C 228	(A,49,9)	CKSSYB103K16
	R 708	(B,50,57)	RS1/16SS221J	0 220	(, 1, 10,0)	ONO TE TOOM TO
	R 710	(A,28,77)	RS1/16SS102J	C 234	(B,36,81)	CEVW221M4
	R 710		RS1/16SS102J RS1/16SS221J	C 234 C 237		CKSSYB104K10
	K / 11	(B,44,53)	K31/10332213		(B,38,29)	
	D 744	(5.54.50)	D04/40004704	C 239	(B,34,10)	CCSSCH220J50
	R 714	(B,51,53)	RS1/16SS473J	C 242	(B,58,32)	CKSSYB104K10
	R 716	(A,63,56)	RS1/16SS472J	C 243	(B,39,76)	CKSSYB104K10
	R 719	(B,49,45)	RS1/16SS221J		_	
	R 720	(B,46,52)	RS1/16SS471J	C 244	(B,49,70)	CKSSYB104K10
	R 724	(A,62,42)	RS1/16S473J	C 246	(A,23,19)	CKSSYB104K10
				C 251	(B,28,31)	CKSRYB102K50
	R 725	(B,57,43)	RS1/16SS222J	C 260	(A,54,25)	CKSSYB104K10
Е	R 726	(A,52,41)	RS1/16SS103J	C 301	(A,43,78)	CKSSYB221K50
_	R 727	(B,50,54)	RS1/16SS473J			
	R 729	(A,57,40)	RS1/16SS223J	C 302	(A,50,79)	CKSSYB221K50
	R 730	(A,65,41)	RS1/16SS473J	C 303	(A,37,85)	CKSSYB472K25
		(* 1,00, 1.)		C 304	(A,39,89)	CKSSYB103K16
	R 731	(A,53,41)	RS1/16SS104J	C 305	(B,34,92)	CEVW101M16
	R 737	(A,41,42)	RS1/16SS104J	C 307	(B,56,90)	CKSSYB104K10
	R 740	(A,41,42) (A,35,46)	RS1/16SS473J	0 301	(2,00,00)	C1.00101041010
_				0.604	(P. 46 60)	CCCBCI 1400 IE0
	R 742	(A,50,41)	RS1/16SS104J	C 601	(B,46,60)	CCSRCH102J50
	R 746	(B,60,56)	RS1/16SS104J	C 602	(B,41,65)	CCSRCH102J50
	5	(4.00.55)	DO4/4600 :== :	C 701	(A,64,46)	CKSSYB104K10
	R 750	(A,39,59)	RS1/16SS473J	C 703	(B,50,61)	CKSSYB103K16
	R 754	(B,48,60)	RS1/16SS102J	C 706	(B,50,62)	CKSSYB104K10
F	R 755	(A,43,61)	RS1/16SS102J			
	R 765	(B,51,40)	RAB4CQ221J	C 707	(A,36,45)	CKSSYB104K10
	R 769	(B,48,40)	RAB4CQ221J	C 712	(A,22,42)	CKSRYB224K16
				C 714	(B,60,45)	CKSSYB104K10
			A) //			

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	5	- 6	7	-	8
<u>C</u>	ircuit Symbol and	d No. Part No.			
C 716	(A,61,40)	CKSSYB103K16			
C 722	(B,52,48)	CKSQYB475K6R3			
C 723	(A,26,41)	CKSRYB105K10			
C 903	(B,56,70)	CKSSYB471K50			
C 906	(A,40,77)	CKSRYB224K16			
C 907	(A,47,76)	CKSSYB103K16			
C 910	(B,60,71)	CKSQYB225K10			
Misce	llaneous Parts	List			
	D: 1 11:40 :	0)0/4045			

	Pickup Unit(Service)	CXX1815
M 1	Motor Unit(LOADING)	CXC4659
M 2	Motor Unit(CARRIAGE)	CXC4314
M 3	Motor(SPINDLE)	CXM1308
	Pickup Unit(P10)(Service)	CXX1641
M 1	Motor Unit(SPINDLE)	CXC4440
M 2	Motor Unit(LOADING/CARRIAGE)	CXB8933
M 10	Motor Unit(FLAP)	CZX5102
	LCD Panel	CWX3229
	Fan Motor	CXM1320

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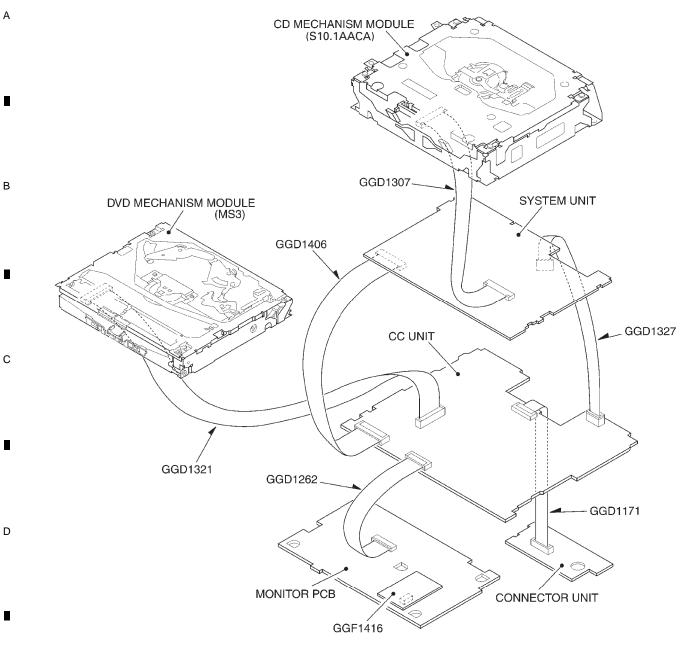
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6. ADJUSTMENT 6.1 JIG CONNECTION DIAGRAM



Jigs List

Name	Jig No.	Remarks
45-Pin FFC	GGD1321	DVD Mechanism Module(MS3)(CN601) <> CC Unit(CN2)
23-Pin BBR FFC	GGD1307	CD Mechanism Module(S10.1)(CN901) <> System Unit(CN1301)
80-Pin FFC	GGD1406	System Unit(CN1701) <> CC Unit(CN605)
20-Pin Extension Cord	GGD1327	System Unit(CN1802) <> CC Unit(CN801)
30-Pin FFC	GGD1171	CC Unit(CN702) <> Connector Unit(CN2804)
33-Pin FFC	GGD1262	CC Unit(CN701) <> Monitor PCB(CN5002)
Monitor Adjustment PCB	GGF1416	For OSD display (*1)
Test Disc	GGV1237	Operation check
Test Disc	TCD-782	Checking the grating(CD)
L.P.F.		Checking the grating(Two pieces)
Test Disc	GGV1018	Checking the grating(DVD)

^{*1)} Since this product does not have OSD IC, OSD for adjustment is displayed by using GGF1416 at the time of monitor adjustment.

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6.2 DVD ADJUSTMENT



1) Precautions

This product uses 5V and 3.3V as standard voltages. The electrical potential that is the reference for signals, is not GND, but VREF (approximately 2.2V) and VHALF (approximately 1.65V).

During product adjustments, if the reference voltage is mistakenly taken as GND, and a grounding contact is made, not only would it be impossible to measure the accurate electrical potential, but also the servo motor would malfunction, resulting in the application of a strong impact on the pick up. The following precautionary measures should be strictly adhered to, in order to avoid such problems.

The reference voltage and GND should not be confused when using the minus probe of a measurement device. When an oscilloscope is being used special care should be taken to make sure that the reference voltage is not connected to the probe of ch1 (on the minus side), while the probe of ch2 (on the minus side), is connected to GND. Further, since the body frame of most measurement devices have the same electrical potential as the minus side of the probe, the body frame of the measurement device should be set to floating ground.

If the reference voltage is connected to GND by mistake, turn the regulator OFF immediately, or turn the power OFF.

- Remove the filters and wires used for measurements only after the regulator has been turned OFF.
- After the power supply is turned on, regulator ON the following adjustment and measurement are promptly done.
- Whenever the product is in the test mode, the software will not take any protective action. For this reason, special care should be taken to make sure that no mechanical or electrical shock could be applied to the product when taking measurements in the test mode.
- Whenever the EJECT key is pressed to eject the disk, no other keys, other than the EJECT key, should be pressed until the disk eject action has been completed
- Press the EJECT key only after the disk has stopped completely.
- If the product hangs up turn the power OFF immediately.
- Laser didoes may be damaged, if the volume switch for the laser power adjustment of the pick up unit, is turned.

Attention)

- Test mode starting procedure Please select "MS3 check" to start test mode.
- Test mode stopping procedure ACC and Backup OFF.

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Start test mode Note 1: At this stage select the media type. Various settings are carried out according to the media selection made here. Test mode In Note 2: While measurements are being taken, only the operation, for which the measurement is being taken, is allowed. Note 3: Reproduction (play) speed is selectable from DVD:x1.3 1.6CAV,CD:x 4CLV Fixation Set source to DVD Note 4: Gain change: Normal gain -> OEIC=H -> OEIC=H and FEP x 4 AMP ON TEST [2] [3] [1] EDC1 EDC2 FF test mode mode mode 0X00 000d [1]: DVD, single-layer [2]: DVD, dual-layer Power off condition [3]: CD-ROM Power On Disc Type Eject FE offset coefficient (Note 1) TE offset coefficient AS offset coefficient ENV offset coefficien 0FFF 0000 Power on condition [2] [1A00 0000] [BACK] [3] [3] [4] [5] Focus Search Power Off CRG+ Focus close CRG -LD_ON CRG_HOME FE MAX level FE MIN level 1100 0000 LEFT adjustment Focus Search AS MAX level ENV MAX level 1FFF 0000 1B00 0000 1C00 0000 1D00 0000 Stop FE normalization feature Spindle gain coefficient TEMAX level TEMIN level LD_OFF:1000,0000 2X00 0000 [BACK] [1] [2] [2] Focus close condition 1 T.Bal and Power Off Focus Jump CRG+ CRGother adjustments Operation while key is being pushed Operation while key is being pushed. Layer L0:2000 0000 Layer L1:2100 0000 TBAL Coefficient(Layer 0) 2FFF 0000 TBAL Coefficient(Layer 1) TE normalization feature 2B00 0000 2C00 0000 [BACK] [1] [2] Focus close condition 2 [2] TE normalization feature (Laver1) Power Off Tracking close CRG+ CRG adjustment FBAL Coefficient(Layer0)
FBAL Coefficient(Layer1)
Focus Gain Coefficient(Layer0)
Focus Gain Coefficient(Layer1)
Tracking Gain Coefficient(Layer0)
Tracking Gain Coefficient(Layer1)
AS normalization adjustment featu 3FFF 0000 Tracking close condition Operation while key is being pushed. Operation while key is being pushed. 3B00 0000 3C00 0000 4000 0000 [1] [BACK] [2] [3] [4] [4] [5] Error Rate T. Jump Reproduction Power Off Focus Jump ID Search Tracking measurement speed switching +/-Open (Note 2) (Note 3) Jump+: 4B00 0000 Jump-: 4A00 0000 DVD x 1.3 ~ 1.6CAV Layer L0:4X00 0000 4C00 0000 ncus Gain Coefficient(Laver0) Laver L1:4X00 0000 Focus Gain Coefficient(Layert)
Focus Gain Coefficient(Layer1)
Tracking Gain Coefficient(Layer0)
Tracking Gain Coefficient(Layer1)
AS normalization adjustment featu CD x 4CLV: 4X00 0000 ID Track number specification (Layer0)
AS normalization adjustment feature specification ID display ID Jump start Search Start

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F-close and F-search cannot be executed, unless LD-ON is set. [If F-close isn't executed within 9 seconds after LD-ON, it switches to LD-OFF automatically. And even if F-search is executed within 9 seconds after LD-ON, it also switches to LD-OFF.]

Please carry out F-close after carrying out power-off at once and carrying out power-on again, when carrying out F-close after performing F-search.

The track number designation is selected from the track numbers already prepared for selection. Switching to cyclic operation is made at step ①, and the decision is finalized (entered) in step ③.

For CD: Tracks 1, 4, 10, 11 and 32.

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For DVD: Tracks 1, 4, 10, 11, 32, 64 and 100.

Method for designating an ID address:

· A number of digits are determined through commands RIGHT and LEFT. Numerical UP/DOWN operations are performed through commands ① and ②. The decision is finalized (entered) with command ③.

** ****: Present ID value

Display

Error Code List

Error status from		
DVD microcomputer	Contents	Display
0X50	Mecha. error	No display
0X40	No disc	No display
0X30	The temperature is abnormal	Thermal Protection in Motion
0X20	Read error	Error-02-XX
0XE2	Non-playable disc	NON-PLAYABLE DISC
0X90	Different region disc	DIFFERENT REGION DISC
0XFF	Undefined error	Error-FF

Error code of read error(Part of XX)

Error Code	Contents	Display
0X99	Data cannot read	Please confirm the disc
0X80	The address cannot be found	Please confirm the disc
0X90	Focus error	Please confirm the disc
0X91	Spindle lock NG	DVD is stopping because mechanism detected abnormality
0X92	Carriage home NG	DVD is stopping because mechanism detected abnormality
0X93	FOK error	Please confirm the disc
0X94	ID/Subcode cannot be read	Please confirm the disc
0X95	High spindle rotation	DVD is stopping because mechanism detected abnormality
0X96	Row spindle rotation	DVD is stopping because mechanism detected abnormality
0X98	TOC cannot be found	Please confirm the disc
0X9A	AV chip error	DVD is stopping because mechanism detected abnormality
0X9B	RecaveryNG(BE)	DVD is stopping because mechanism detected abnormality
0X9C	Play state error	
0X9D	Disc data error	
0X9E	Serface error (Disc distinction is improper)	

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The skew adjustment is to adjust the pickup and the flatness of the disc so that the beam from the pickup continues to go to the disc vertically. In MS3 mecha, the pickup shaft on the inner track near the carriage motor is fixed, so the fixed position is regarded as the standard and the flatness is adjusted. Observing the RF waveform on the oscilloscope, repeat the adjustment on the inner track position and the outer track position, and narrow the adjusted value.

If any of the following replacements have been performed on the system, adjustments for pick up, must be conducted:

- 1. Pick up unit replacement
- 2. Spindle motor replacement
- 3. Carriage chassis replacement
- 4. Pick up unit main shaft replacement
- 5. Pick up unit sub-shaft replacement

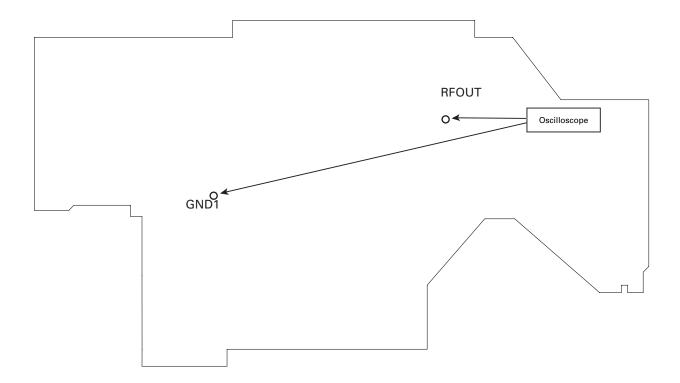
Measurement device and tools: Oscilloscope

Allen key wrench

Screw lock (GYL1001)

Disk used : GGV1018
Measurement reference : GND1
Measurement point : RFOUT

Connection diagram DVD core unit



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Symptoms in case of poor adjustment: Error efficiency deteriorated: 10⁻³ (Optimum value: 10⁻⁴ or lower)

High jitter of the RF signal RF waveform deformed

Unstable operation in tracking closing and servo control

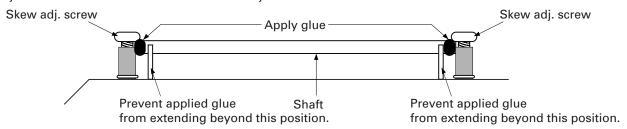
Caution: Avoid exposing your eyes to laser beams for a long time.

Preparation for adjustment: Clean both ends of the shafts.

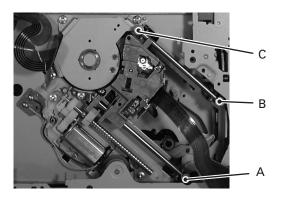
Use brand new skew screws supplied with the service kit GXX1234.

Procedures:

- 1. Place the DVD mechanism module upside down.
 - To avoid the disc from being robbed when it is turned upside down, first put a coin of about 1.5 mm on the table, then turn the disc upside down and set it so that the 1 in the figure comes to the point immediately above the coin.
- 2. After replacing the pickup (by referring to the procedures of "Removing the Pickup."), roughly adjust the three skew screws through visual check so that the pickup is mounted in parallel to the CRG chassis around the inner
- 3. Connect an oscilloscope as shown in the connecting diagram.
- 4. Turn on the power of the product. Load the test disc (GGV1018).
- 5. In the front-end test mode, set the disc type to DVD layer 1. Then, turn on the power. Move the pickup toward
- 6. Turn on the laser diodes.
- 7. With the focus servo closed, complete all automatic adjustments. Close the tracking servo, and then complete all automatic adjustments.
- 8 Follow the next procedures, from 8-1 to 8-5, and adjust the (three) skew screws.
- 8-1 Move the pickup toward the inner track and turn the skew adjustment screw C so that the RF level of oscilloscope becomes the maximum.
 - (Tangential adjustment at the inner track position: Adjust the flatness of the disc at the inner track position with the adjustment screw C)
- 8-2 Move the pickup toward the outer track and turn the skew adjustment screw B so that the RF level becomes the maximum.
 - (Tangential adjustment at the outer track position: Adjust the flatness of the disc at the outer track position with the adjustment screw B)
- 8-3 Leave the pickup at the outer track position and turn the skew adjustment screws A and B in the same direction alternately one quarter at a time (A•B•A•B •••) so that the RF level becomes the maximum.
 - (Radial adjustment at the outer track position: Keeping the flatness at the outer track position, adjust the flatness of the whole disk with the adjustment screws A and B)
- 8-4 Move the pickup toward the inner track and turn the skew adjustment screw C so that the RF level becomes the maximum.
 - (Tangential adjustment at the inner track position: Adjust the flatness of the disc at the inner track position with the diustment screw C)
- 8-5 Repeat the steps from 8-2 to 8-4 three times, and adjust at the position where the RF level becomes the
- 9. Turn off the power in the test mode. After confirming that the disc has stopped, eject the disc.
- 10. Adjust with a screw rock the shaft and skew adjustment screw to the same state as initial one.







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1) Cautions on adjustments

• In this product the single voltage (3.3V) is used for the regulator. The reference voltage is the REFO1 (1.65V) instead of the GND.

If you should mistakenly short the REFO1 with the GND during adjustment, accurate voltage will not be obtained, and the servo's misoperation will apply excessive shock to the pickup. To avoid such problems:

- a. Do not mix up the REFO1 with the GND when connecting the (-) probe of measuring instruments. Especially on an oscilloscope, avoid connecting the (-) probe for CH1 to the GND.
- b. In many cases, measuring instruments have the same potential as that for the (-) probe. Be sure to set the measuring instruments to the floating state.
- c. If you have mistakenly connected the REFO1 to the GND, turn off the regulator or the power immediately.
- Before mounting and removing filters or leads for adjustment, be sure to turn off the regulator.
- For stable circuit operation, keep the mechanism operating for about one minute or more after the regulator is turned on.
- In the test mode, any software protections will not work. Avoid applying any mechanical or electrical shock to the mechanism during adjustment.
- The RFI and RFO signals with a wide frequency range are easy to oscillate. When observing the signals, insert a resistor of 1k ohms in series.
- The load and eject operation is not guarantied with the mechanism upside down. If the mechanism is blocked due to mistaken eject operation, reset the product or turn off and on the ACC to restore it.

2) Test mode

This mode is used to adjust the CD mechanism module.

• To enter the test mode.

While pressing the ANGLE and SOURCE keys at the same time, reset.

• To exit from the test mode.

Turn off the ACC and back up.

Notes:

- a. During ejection, do not press any other keys than the EJECT key until the loaded disc is ejected.
- b. If you have pressed the (\rightarrow) key or (\leftarrow) key during focus search, turn off the power immediately to protect the actuator from damage caused by the lens stuck.
- c. For the TR jump modes except 100TR, the track jump operation will continue even if the key is released.
- d. For the CRG move and 100TR jump modes, the tracking loop will be closed at the same time when the key is released.
- e. When the power is turned off and on, the jump mode is reset to the single TR (91), the RF amp gain is set to 0dB, and the auto-adjustment values are reset to the default settings.

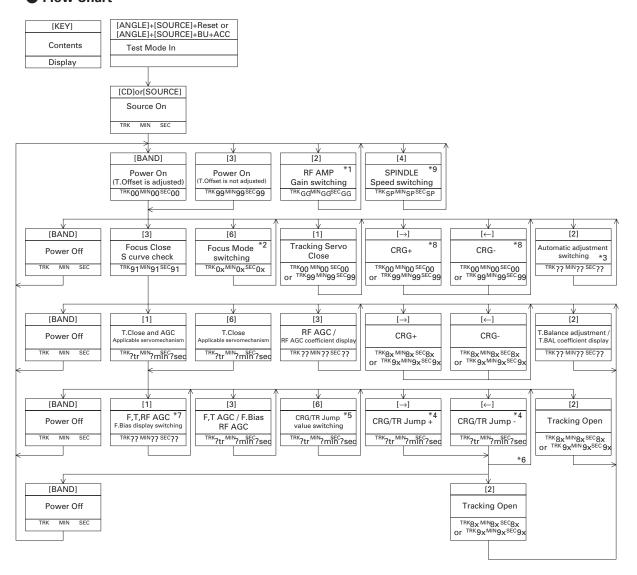
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Flow Chart

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*1)		TYP		\rightarrow	-6dB	\rightarrow	-12dB
	TRK	MIN	SEC		TRK 06 MIN 06 SEC 06		TRK 12 MIN 12 SEC 12

*2) Focus Close \rightarrow S.Curve check setting \rightarrow FEQ measurement setting TRK 00 MIN 00 SEC 00 TRK 01 MIN 01 SEC 01 TRK 02 MIN 02 SEC 02 TRK 01 MIN 02 SEC 02

*3) F.Offset Display \to T.Offset Display \to Switch to the order of the original display \uparrow

*4) 1TR / 32TR / 100TR

*5) Single TR \rightarrow 32TR \rightarrow 100TR \rightarrow CRG Move 9x(8x) : 91(81) 92(82) 93(83) 94(84)

*6) Only at the time of CRG move, 100TR jump

*7) TRK/MIN/SEC \rightarrow F.AGC \rightarrow T.AGC \rightarrow F Bias \rightarrow RF AGC \uparrow

*8) CRG motor voltage = 2[V]

*9) A	plica	bility	/: A, B,	C, D, E, F		
	TYP(1X)	\rightarrow	2X	→ 1.	X
TRK	MIN	SEC	TRK 22	MIN 22 SEC 22	TRK 11 MIN	11 SEC 11

As for the double speed (2x), audio output cannot be supported

[Key]	Operation
[Key]	Test Mode
[BAND]	Power On / Off
[→]	CRG + / TR Jump + (Direction of the external surface)
[←]	CRG - / TR Jump - (Direction of the internal surface)
[1]	U.CLS and AGC and Applicable servomechanism / AGC, AGC display setting
[2]	RF Gain switching / Offset adjustment display / T.Balance adjustment / T.Open
[3]	Close, S.Curve / Rough Servo and RF AGC / F, T, RF AGC
[4]	SPDL 1X / 2X switching As for the double speed (2x), audio output cannot be supported.
[5]	Error Rate measurement 1st - ON : ERR count Beginning (30Sec) 2nd - ON : BER display data [%]
[6]	F.Mode switching / Tracking Close / CRG • TR Jump switching

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6.4 CHECKING THE GRATING AFTER CHANGING THE PICKUP UNIT



· Note:

The grating angle of the PU unit cannot be adjusted after the PU unit is changed. The PU unit in the CD mechanism module is adjusted on the production line to match the CD mechanism module and is thus the best adjusted PU unit for the CD mechanism module. Changing the PU unit is thus best considered as a last resort. However, if the PU unit must be changed, the grating should be checked using the procedure below.

• Purpose :

To check that the grating is within an acceptable range when the PU unit is changed.

· Symptoms of Mal-adjustment :

If the grating is off by a large amount symptoms such as being unable to close tracking, being unable to perform track search operations, or taking a long time for track searching.

· Method:

Measuring Equipment

· Oscilloscope, Two L.P.F.

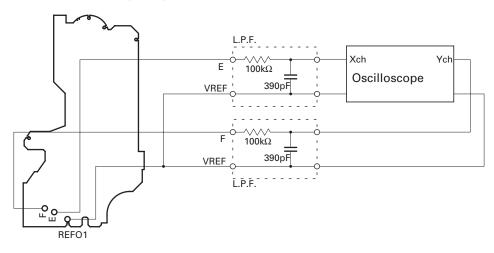
Measuring Points

• E, F, REFO1 • TCD-782

DiscMode

TEST MODE

CD CORE UNIT(S10.1)



Checking Procedure

- 1. In test mode, load the disc and switch the 3V regulator on.
- 2. Using the \rightarrow and \leftarrow buttons, move the PU unit to the innermost track.
- 3. Press key 3 to close focus, the display should read "91". Press key 2 to implement the tracking balance adjustment the display should now read "81". Press key 3. The display will change, returning to "81" on the fourth press.
- 4. As shown in the diagram above, monitor the LPF outputs using the oscilloscope and check that the phase difference is within 75°. Refer to the photographs supplied to determine the phase angle.
- 5. If the phase difference is determined to be greater than 75° try changing the PU unit to see if there is any improvement. If, after trying this a number of times, the grating angle does not become less than 75° then the mechanism should be judged to be at fault.

Note

Because of eccentricity in the disc and a slight misalignment of the clamping center the grating waveform may be seen to "wobble" (the phase difference changes as the disc rotates). The angle specified above indicates the average angle.

Hint

Reloading the disc changes the clamp position and may decrease the "wobble".

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Grating waveform

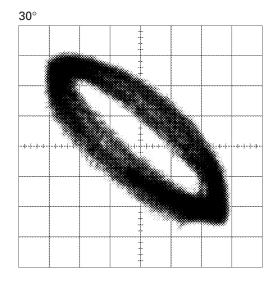
5

 $\begin{aligned} & Ech \rightarrow Xch & 20mV/div, \, AC \\ & Fch \rightarrow Ych & 20mV/div, \, AC \end{aligned}$

7

6

0°



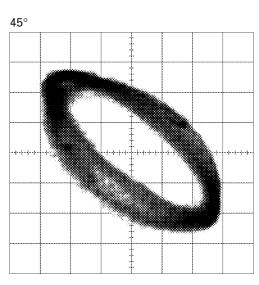
8

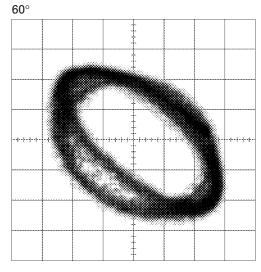
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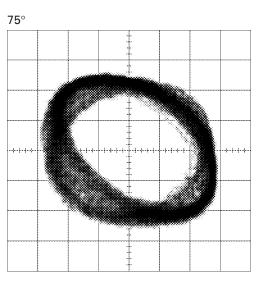
С

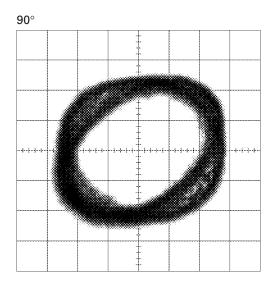
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Error Messages

Error is displayed with number for Error cause when CD is inoperative or stops with Error during operation. The purpose is to reduce nonsense calls from users as well as to assist all related analysis and repair for defects at service station.

- (1) Basic Display Method
- 1) When CSMOD (CD mode area for system) is SERRORM, Error code will be written in DMIN (minutes area for display), DSEC (seconds area for display). The same data shall be written in DMIN and DSEC. DTNO is blank as usual.
- 2) Display Example of Head Unit

The following is about LCD display ability. xx is Error number.

8 digits
ERROR-xx

6 digits	
ERR-xx	
OR	
Err-xx	

4 digits	
E-xx	

(2) Error Code List

No.	Classification	Contents	Details • Cause			
10	Electricity	Carriage Home NG	CRG can't move to the inner.			
			CRG can't move from the inner.			
			ightarrow HOME SW failure, CRG movement failure.			
11	Electricity	Focus Search NG	Focus can't be caught.			
			ightarrow Back of Disc / Severe dirt and vibration.			
12	Electricity	Spindle Lock NG	Not spindle, lock. Wrong subcode (can't read).			
		Subcode NG	ightarrow Defective Spindle. Scratch and dirt on Disc. Intense vibration.			
		RF-amp NG	The appropriate gain of the RF amp cannot be obtained.			
			ightarrow Defective spindle.			
			ightarrow Scratched or dirty disc. Severe vibration. Abnormal CD signals.			
			ightarrow Blanc CD-R disc. Disc inserted upside down.			
17	Electricity	Setup NG	AGC protection doesn't work, out of Focus soon.			
			→ Scratch on Disc/Severe dirt and vibration.			
22	Disc	Impossible to play	There is no playable MP3 or WMA file present in a disc.			
			ightarrow No MP3 or WMA file exists in a CD-ROM disc inserted.			
23	Disc	File Format NG	Contents are stored in an incompatible file format.			
			\rightarrow The contents in a CD-ROM disc inserted are recorded in a file format other than ISO9660 Level-1 and 2.			
30	Electricity	Search Time Out	Can't reach the target address.			
			ightarrow Defective CRG/tracking, or scratch on Disc.			
44	Disc	Impossible to play	There is no playable TRK No. present in a disc.			
			ightarrow All TRK Nos. In a disc inserted are specified as a track which shoul be skipped, in the track skip information.			
50	Mecha	Disc Load / Eject NG	Disc loading/ejection cannot be complete.			
			\rightarrow Foreign objects entered into the mechanism. Disc caught in between during loading/ejection.			
A0	System	Power NG	Power supply (VD) isn't connected to the ground.			
			ightarrow Defective SW transistor. Abnormal power (failed connector)			

Note: Error doesn't display in mechanism only. (CD off causes mechanism off)

If TOC can't be read, error wouldn't occur, but mechanism still continues its operation.

The upper digits of error code is mainly classified by 3 kinds as follows:

1x: Setup related error, 3x: Search related error, Ax: Other errors.

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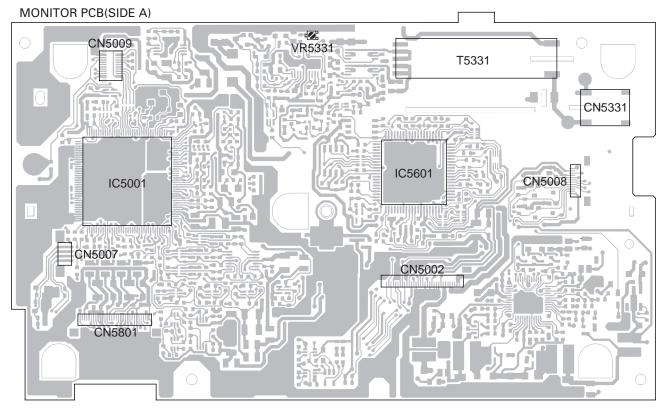
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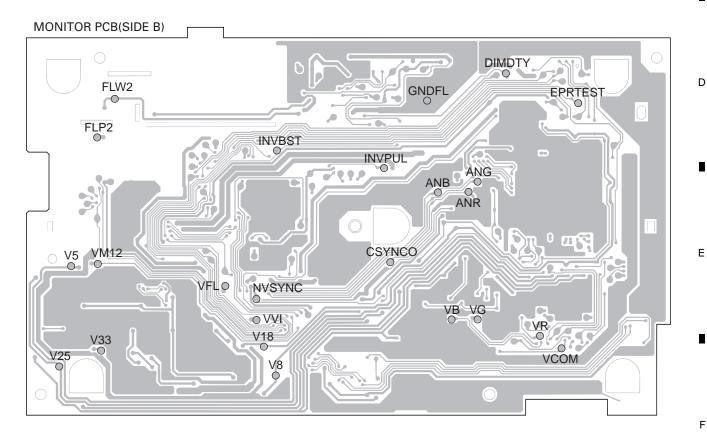
2

6.6 MONITOR PCB ADJUSTMENT



Adjustment point





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Notes: When the power supply for TC90A64AF-P (IC4001) is OFF, be careful not to apply any voltage to its terminals except for IIC lines(SDA and SCL). The IIC lines can accept a maximum of 5V.

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No	Adjustment item	Input	Measuring point	Adjusting point	Measuring method and specs.	Remarks
_	3.3V power supply verification	Apply 14.4V to TP VVI.	(TP V33)	I	V33 = 3.3V ± 0.3V	
2	2.5V power supply verification	Apply 14.4V to TP VVI.	(TP V25)	I	V25 = 2.5V ± 0.2V	
3	5V power supply verification	Apply 14.4V to TP VVI.	(TP V5)	I	$V5 = 5.0V \pm 0.3V$	
4	8V power supply verification	Apply 14.4V to TP VVI.	(TP V8)	I	V8 = 8.0V ± 0.6V	
2	18.5V power supply Apply 14.4V verification to TP VVI.	Apply 14.4V to TP VVI.	(TP V18)	I	V18 = 18.5V ± 0.8V	
9	-12V power supply Apply 14.4V to TP VVI.	Apply 14.4V to TP VVI.	(TP VM12)	I	VM12 = -12.0V ± 0.6V	

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Remarks		The signal generator should be used via 75 ohms. (specs in desinging : 75.0 ± 0.2ohms)		The signal generator should be used via 75 ohms.	The input signal has no setup. (Apply a black signal to TP CSYNCO)	The input 10-step signal has no setup.	The input 10-step signal has no setup. If the measured value is out of specs, change the setting of SA24h D11 - 8 (γ 2 inflection point: GAMMA2 in the line adjustment 1 mode) (Register setting specs: 6 \pm 1)
Measuring method and specs.	4.50V ± 0.20V	0.65V ± 0.02V	3.3V ± 0.1V	1.0V ± 0.02V	3.9V ± 0.2V	The first-step A = 0.50V \pm 0.1V A= A_{1} (A1+A2)/2 A1-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A	The 10-step A = 3.00V \pm 0.15V
Adjusting point	I	I	I	I	I	I	I
Measuring point	TP VCOM	TP ANR,ANG, ANB	TP NVSYNC	TP CSYNCO	TP VG	TP VG	TP VG
Input	Any input signal	Apply a white 100% signal to TP AVR,ANG, ANB.	Apply a synchronizing signal to TP NVSYNC.	Apply a white 100% signal to TP CSYNCO.	Apply a black signal to TP ANR,ANG,ANB. (Video level:0%)	Apply a 10-step signal to TP ANR,ANG,ANB.	Apply a 10-step signal to TP ANR,ANG,ANB.
Adjustment item	Vcom amp output Voltage waveform Verification	Input waveform verification (RGB)	Input waveform verification (SYNC)	Input waveform verification (composite)	RGB amp output voltage waveform verification	Gamma 0 Verification	Gamma 2 verification
N _O	7	8	6	10	1-	12	13

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Remarks	Register setting specs: 8 ± 2 (specs in designing: 8 ± 1) In the Line adjustment 2 mode, SUB BRI B can be used as the adjusting point.	Register setting specs: 64 ± 3 (specs in designing: 64 ± 2) In the Line adjustment 2 mode, SUB CON B can be used as the adjusting point.	Register setting specs: 8 ± 2 (specs in designing: 8 ± 1) In the Line adjustment 2 mode, SUB BRI R can be used as the adjusting point.	Register setting specs: 64 ± 3 (specs in designing: 64 ± 2) In the Line adjustment 2 mode, SUB CON R can be used as the adjusting point.	After being written in the setting value of EEP-ROM is checked. 2 mode, DOT CLK can be used as the adjusting point.		If it input a signal for alternate white into TP CVBS, it is possible. (However, adjustment by RGB has priority.) The luminance level of the input signal: 50%. In the flicker adjustment mode, COM DC can be used as the adjusting point.
Measuring method and specs.	Adjust the first step levels of the G waveform and the B waveform.	Adjust the 10th step levels of the G waveform and the B waveform.	Adjust the first step levels of the G wave form and the R waveform.(Measuring point is the same as that of No,14.)	Adjust the 10th step levels of the G waveform and the R waveform.(Measuring point is the same as that of No, 15.)	6(0110)	Keep the unit in the operation mode for 30 minutes or longer.	Adjust so that the flickers become minimum in all
Adjusting point	Register setting of SA39h D11 - 8	Register setting of SA26h D7 - 1	Register setting of SA39h D15 - 12	Register setting of SA26h D15 - 9	Register setting of SA2Ah D3 - 0	I	Register setting of SA22h D15 - 8
Measuring point	TP VG and VB	TP VG and VB	TP VG and VR	TP VG and VR	I	I	Screen
Input	Apply a 10-step signal to TP ANR,ANG, ANB.	Apply a 10-step signal to TP ANR,ANG, ANB.	Apply a 10-step signal to TP ANR,ANG, ANB.	Apply a 10-step signal to TP ANR,ANG, ANB.	Any input signal	Any input signal	Input a signal for alternate white and black lines to TP ANR, TP ANG and TP ANB.
Adjustment item	B SUB BRIGHT	B SUB CONTRAST	R SUB BRIGHT	R SUB CONTRAST	Horizon dot position	Aging	Flicker
S S	14	15	16	17	18	19	20

Flicker adjustment has been deviated The images flicker.

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N _O	No Adjustment item	Input	Measuring point	Adjusting point	Measuring Adjusting Measuring method point point	Remarks
21	BACK LIGHT 21 DRIVE FREQUENCY	Apply 14.4V ± 0.2V to TP VFL TP GNDFL: GND TP INVPUL: GND TP DIMDTY: GND TP INVBST: GND	TP:FLP2 TP:FLW2	VR 5331	48.0 ± 0.1kHz	100k ohms is connected between TP FLP2 and TP FLW2. It acts as the monitor of the waveform after potential. Don't acts as the monitor of the TP FLW2 directly. (there is a possibility that a measuring instrument may be destroyed, for high voltage.) Out of spec., when frequency change of following may become
22	22 FREQUENCY CHANGE CHECK	Apply wave of 98.0 \pm 1kHz to TP INVPUL 5V \rightarrow 10 \pm 2% \rightarrow 5V \rightarrow 0V	TP : FLP2 TP : FLW2		49.0 ± 0.5kHz	It checks that the waveform after potential is set to 49 kHz
23	23 FREQUENCY CHANGE CHECK	Apply wave of 104.0 \pm 1kHz to TP INVPUL 5V $=\frac{1}{10}$ \pm 2% 0V	TP : FLP2 TP : FLW2		52.0 ± 0.5kHz	It checks that the waveform after potential is set to 52 kHz

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●EEPROM setting mode

*) Since this product does not have OSD IC, OSD for adjustment is displayed by using GGF1416 at the time of monitor adjustment.

[Operations]

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To enter the setting mode, while keeping the EPRTEST terminal at "Low",

Flicker adjustment mode

Line adjustment 1 mode

Line adjustment 2 mode

Dimmer parameter setting mode

 $[\uparrow\downarrow]$ button: Used to select a desired adjustment item in each mode

[\longleftrightarrow] button: Used to adjust the selected item

Notes:

1) The setting values are written in the EEPROM and then the read-out data is displayed on the screen. WRITE and READ operations are processed by the block data of 16 bits.

The total bits for the settings depend on adjusting items.

2) For CS (Check Sum) items, when the settings are changed, the CS value is written in 8 bits by applying the exclusive OR (XOR). The CS value is first written in the EEPROM and then the read-out data is displayed. If the written data is different from the read-out data, the letter color for the read-out data is changed.

• Memory items and addresses on the EEPROM(S-29221BROI-J8T1)

	EEPROM address	Bit15	Bit14	Bit13	Bit12	Bit11	Bit10	Bit9	Bit8	Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0
	00H		Dim	nmer exte	rnal ligh	t thresho	ld (high)					Dimmer	external	light thre	eshold (la	ow)	
	01H			Backligh	nt output	(upper li	mit)					Back	dight out	put (low	er limit)		
	02H		Comm	non rever PIP	se outpu SA:22h[COM DC)		Comn	non rese	rve outpu PIP SA:2			1 AMP)	Don'	t care
	03H	Don	't care				DC (RGB 23h[B13-8				Dor	n't care		γ 0 infl	ection po	oint (GAN 23h[B3-0]	ИМА 0)]
	04H	γ3 infle	IP SA:24	int (GAM h[B15-12]]		ection po PIP SA:2			γ1		on point (SA:24h[E				Don't ca	re
[05H				P SA:26	h[B15-9]			Don't care		Οι	utput sub Pli	contrast SA:26h		CON B)		Don't care
	06H	Sub brigh		ter γ circuit (39h[B15-12]	SUB BRI R)	Sub brigh		er g circuit 89h[B11-8]	(SUB BRI B				Do	n't care			
[07H				Don	't care					Do	n't care		Clock ph		stment (D 2Ah[B3-0]	
	08H		Don't care						Do	n't care			Sharpness (S PIP SA:0		Don't care		
	09H-1BH								Don't	t care							
	1CH							Chec	k sum ad	ddress (00h-1bh)							
	1DH				Don	't care				Common reverse output center(Reference)							
	1EH						Don't	care		Clock phase adjustment initial value					itial value		
	1F-3F								Don't	care							
	40		E>	xternal lig	ht of dim	nmer adj	ustment(H)				Back ligh	t of dimn	ner adjus	tment(H)	
	41		Ex	cternal lig	ht of dim	ımer adjı	ustment(l	M)				Back light	t of dimn	ner adjus	tment(M)	
	42		E	xternal lig	ht of din	nmer adj	ustment(L)				Back ligh	t of dimr	ner adjus	stment(L)	
	43-7F								Don't	care							

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EEPROM initial value

Item	Meaning	initial value(hex)	initial value(DEC)
COM_DC	Common reverse output center	8C	140
COM_AMP	Common reverse output amplitude	1E	30
RGB_BIAS	Out clamp DC	00	00
GAMMA0	γ0	02	02
GAMMA3	γ3	04	04
GAMMA2	γ2	06	06
GAMMA1	γ1	11	17
SUB_CON_R	Output sub contrast R	40	64
SUB_CON_B	Output sub contrast B	40	64
SUB_BRI_R	Sub brightness R after γ circuit	08	08
SUB_BRI_B	Sub brightness B after γ circuit	08	08
DOT_CLK	Clock phase adjustment	06	06
SHARPNESS	Sharpness	03	03
BL_MAX	Back light output (Max.)	C4	196
BL_MIN	Back light output (Min.)	60	96
REF_HIGH	Dimmer (H)	B0	176
REF_LOW	Dimmer (L)	50	80
LUM_HIGH	External light (H)	E2	226
LUM_MID	External light (M)	87	135
LUM_LOW	External light (L)	43	67
BL_HIGH	Back light (H)	C4	196
BL_MID	Back light (M)	C4	196
BL_LOW	Back light (L)	70	112

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[Displays in each mode]

In the following figures, the letters and numbers surrounded by a large square are for OSD examples. On the screen, the adjustment names and the settings (or written data) are listed.

The settings (or written data) will change when some adjustments are made in each mode.

(1) Flicker adjustment mode

		Adjustable name	Settings or written data (DEC)	
Common reverse output center	[0 - 255]	COM DC	255	
			i I	

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^{*} The following examples show the maximum values.

(2) Line adjustment 1 mode

Adjustment item	Adjustment range	Adjustable name	Settings or written data (DEC)		
Bright (SA22: B7-2)	[0 - 63]	BRIGHT	63		LINE1
Contrast (SA25: B7-1)	[0 - 127]	CONTRAST	127		I !
Common reverse output center	[0-255]	COM DC	255		
Common reverse output amplitude	[0-63]	COM AMP	63		
Output clamp DC	[0-63]	RGB BIAS	63		
γ0 inflection point	[0-15]	GAMMA0	15		
γ3 inflection point	[0-15]	GAMMA3	15		
γ2 inflection point	[0-15]	GAMMA2	15		
γ1 inflection point	[0-31]	GAMMA1	31		
				CS	FF

Notes:

1) CONTRAST data

The CONTRAST data is adjustable, and used as reference data for other adjustment items, which is not memorized in the EEPROM.

2) BRIGHT and COM AMP data

The BRIGHT and COM AMP adjustments are made by using the same 2-screen IC register(SA22h B7-2: common reverse output amplitude).

Therefore, adjusting one of the data will change the other one.

(3) Line adjustment 2 mode

Adjustment item	Adjustment range	Adjustable name	Settings or written data (DEC)		
Bright (SA22: B7-2)	[0 - 63]	BRIGHT	63		LINE2
Contrast (SA25: B7-1)	[0 - 127]	CONTRAST	127		
Output sub contrast R	[0 - 127]	SUB CON R	127		
Output sub contrast B	[0 - 127]	SUB CON B	127		
Sub brightness R after γ circuit	[0 - 15]	SUB BRI R	15		
Sub brightness B after γ circuit	[0 - 15]	SUB BRI B	15		
Clock phase adjustment	[0 - 15]	DOT CLK	15		
Sharpness	[0 - 3]	SHARPNESS	3		
	i !		i i	CS	FF

Notes:

1) CONTRAST data

The CONTRAST data is adjustable, and used as reference data for other adjustment items, which is not memorized in the EEPROM.

2) SUB BRI R and SUB BRI B data

The displayed value or EEPROM written data is different from the setting value for the 2-screen IC register (IC4001 : TC90A64AF-P).

(Before displayed on the screen, the setting value is converted via some software.)

Displayed value (adjusting value) (DEC)	E2PROM written value. (DEC)	2-screen IC register setting (BIN)	
15	15	0111	(MAX)
14	14	0110	
•	•	•	
	•	•	
9	9	0001	
8	8	0000	(TIP)
7	7	1111	
•	•	•	
	•	•	
1	1	1001	
0	0	1000	(MIN)

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(4) Dimmer parameter setting mode

Adjustment item	Adjustment range	Adjustable name	Settings or written data (DEC)		
Backlight output (MAX)	[0 - 255]	BL MAX	FF		DIMMER
Backlight output(MIN)	[0 - 255]	BL MIN	FF		
Dimmer threshold (high)	[0 - 255]	REF H	FF		
Dimmer threshold (low)	[0 - 255]	REF L	FF		
External light point (high)	[0 - 255]	LUM H	FF		
External light point (middle)	[0 - 255]	LUM M	FF		
External light point (low)	[0 - 255]	LUM L	FF		
Backlight point (high)	[0 - 255]	BL H	FF		
Backlight point (middle)	[0 - 255]	BL M	FF		
Backlight point (low)	[0 - 255]	BL L	FF	CS	FF

Note:

The dimmer point data is memorized in the EEPROM, but not treated as a CS item. It's because the settings are adjustable by the user.

Dot Clock Adjustment Mode

[Operations]

- · [Dot Clock adjustment mode] starting procedure Reset start while pressing the [MAP] and [P. ADJ] Keys together.
- · [Dot Clock adjustment mode] cancellation Monitor's microcomputer OFF.
- The operation after this should use Navigation's remote controller.
- · [| 1] button: Used to select a desired adjustment item in each mode.
- \cdot [\leftarrow \rightarrow] button : Used to adjust the selected item.

[EEPROM: S-29221BROI-J8T1]

The setting values are written in the EEPROM and then the read-out data is displayed on the screen. WRITE and READ operations are processed by the block data of 16 bits.

[Display]

In the following figures, a large square are for OSD examples.

Dot Clock adjustment mode

Adjustment item	Adjustment range	Adjustable name	Settings or written data (DEC)		
Clock phase adjustment	[0 - 15]	DOT CLK	15		
Clock phase adjustment (initial)	[0 - 15]	[FACTORY	8]	! !
Common reverse output center	[0-255]	COM DC	255		
Common reverse output center adjustment (initial)	[0-255]	[FACTORY	140]	
			i I		l I
			 		!

^{*} CS(Check Sum)display is not performed.

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NAVIGATION TEST MODE

- 1. How to start the test mode
 - 1. When +Battery and ACC are ON, push RESET and EJECT buttons simultaneously.
- 2. Release RESET button only.
- 3. When "password entry screen" is displayed, release EJECT button.
- 4. Enter the password.
- 5. When the password has been entered, press [ENTER] key.
- 6. If the correct password has been entered, the test mode menu will be displayed.
- * The password entry screen, as the one used in the previous model, is no longer displayed.
- << Password for the service >>

The password is $[\uparrow (up)] \rightarrow [\uparrow (up)] \rightarrow [\downarrow (down)] \rightarrow [\downarrow (down)] \rightarrow [ENTER]$.

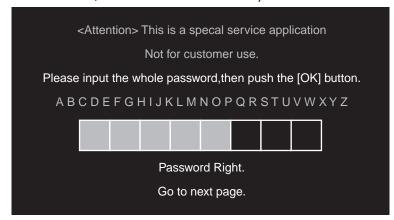
If 8 digits or more are entered and [ENTER] key is pressed, it will be treated as a password error.

· Password entry screen

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• Password OK: After 2 seconds or so, the screen will automatically move on to the menu screen.



• Password NG: Nothing will be displayed, and reboot action will be taken.

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SYSTEM Ver. : [BOOT] 0.14 [OS] 0.14

Inspection item Outline of inspection Content if inspection Calibration setting and remote controller Remocon touch Remote controller touch panel inspection inspection are performed. panel test Version check Version information Display of various version information. check (system software, GPS, system microprocessor, microprocessor for mechanism control, microprocessor for The screen will return to "menu" by BACK 3 ERROR log History of system software errors stored in Error history entry SRAM is displayed. Maximum 8 events from the error last occurred can be displayed. The screen will return to "menu" by BACK Format FLASH drive FLASH format FLASH domain used by the system soft is initialized. When the job is done, the screen will return to "menu". Erase APL-file in Application file inside Application file inside FLASH is clear. FLASH is clear **FLASH** *(Except voice data and SRAM backup variable) When the job is done, the screen will return to "menu". SRAM domain used by the system software Back up variables Clear backup initialization memory is initialized. When the job is done, reboot action will be GPS backup data GPS back up data clear SRAM domain used by GPS is initialized. When the job is done, the screen will return clear to "menu". **GYRO SENSOR** Learned data inside gyro Learned data inside gyro sensor is cleared. INFO data clear sensor is clear When the job is done, the screen will return to "menu". Port status Port status display Port status is displayed. (reverse, parking, information pulse, SDRAM capacity.)

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1. Change to display error [Message]
2. Start within debug shell [On]
3. Program loading [Disc & Card]
4. GPS assessment
5. File maintenance
6. Program forced write

-== back page ==> next page
SYSTEM Ver.: [BOOT] 0.14 [OS] 0.14

No.	Inspection item	Outline of inspection	Content if inspec	ction	
1	Change to	Switching of error	Display setting for	or error cases. (for	debugging)
	display error	information display	Message/Information	ation (error inform	nation) selectable.
2	Start within	Switching of debug	Setting for debug	g shell start. (for d	ebugging)
	debug shell	shell start		rt)/On (initial start	
			Recognition met	hod for boot up p	rogram write is
			changed.		
				System	Write when the version
				program	No. in the disc is
					higher.
				System data	Write when the version
					No. in the disc is
			Disc		higher.
			(default)	GPS program	Write when the version
					No. in the disc is
					higher.
_	_			Application	Write when the version
3	Program	Switching of program		program	information is different
	loading	loading			from the one in disc.
				System	Write when the version
				program	No. in disc or card is
					higher.
				System data	Write when the version
			D' 0 CI		No. in disc or card is
			Disc & Card	ODO	higher.
			(for debug)	GPS program	Write when the version
					No. in disc or card is
				A so selicantia se	higher.
				Application	Write when the version No. in disc or card is
				program	
4	GPS	GPS assessment system	GPS assessment	system can be us	higher. sed. The system will
7	assessment	start	return to "menu		ou. The system will
5	File	File maintenance			nade. Formatting of
•	maintenance	function			sh Card) are made.
				trieved and copied	
					SRAM from PC card.
6	Program forced	Program forced write		(system), GPS (G	
-	write			tware are done by	
					return to "menu" by
			BACK key.	•	,

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No.	Inspection item	Outline of inspection	Content if inspection
1	SRAM/SDRAM test	Memory inspection	SRAM: Device inspection and bus inspection are performed against all SRAM domains. Data will be protected. (applicable to both 32M and 64M) SDRAM: Device inspection and bus inspection are performed against all SDRAM domains. Data will be protected for both BIOS domain and USER domain. The function for SDRAM all domain inspection will activate by the built-in instruction RAM.
2	SENSOR test	Sensor inspection	G sensor, gyro, power supply voltage and installation condition are displayed. The system will return to "menu" by BACK key.
3	RGB test	Image RGB inspection	RGB inspection (Upper half, 8 colors. Black/blue/red/pink/green/light blue/yellow/white display. Lower half, 3 colors. Red/green/blue.) →red (FULL)→green (FULL)→blue (FULL)→ Switching can be made by [←] and [→] keys. The system will return to "menu" by BACK key.
4	MS3 check	MS3 check [ROM]	MS3 mechanism test mode inspection.

3. How to select test mode menu

Select a desired menu by $[\uparrow]$ and $[\downarrow]$ keys, and execute by pressing [ENTER] key. Pages can be changed by $[\leftarrow]$ and $[\rightarrow]$ keys.

4. Version information

Version No. for BOOT section = X.XX System software does not exist in SDRAM. Version No. for BOOT section = X.XX Version No. for SDRAM = Y.YY

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Remocon touch panel test

- How to operate the touch panel test mode is described below.
- First, "1. Setup touch-panel effective range" in the touch panel test menu is made.
- Next, "3. Test Touch-panel", and if the result is OK, then EXIT the screen.
- If the result is NG, conduct "2. Setup calibration", and conduct "3. Test Touch-panel" once again. If the result is OK, then EXIT the screen.
- Furthermore, details of the misalignment can be verified by the "5. Check Touch-panel compensation".
- *) When inspecting the touch panel, use something thin with a round tip such as the touch pen. Furthermore, do not apply excessive force to the touch panel.

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Remocon / Touch-panel Test

* 1. Setup touch-panel effective range
2. Setup calibration
3. Test Touch-panel
4. Check now calibration condition
5. Check Touch-panel compensation
6. Check Touch-panel graphics
7. Check Touch-panel navi coordinate

[CR] Menu selection
[JS UP / DOWN] Cursor movement
[BACK] Back to menu

"*" mark shown on the left side of menu item "1" indicates that the setting has been completed. The setting items where "*" is actually indicated will be "1. Setup ~" and "2. Setup ~" only.

[CR] Enter

[UP/DOWN] Selection of the inspection item [BACK] Return (to the test mode menu)

1. Setup touch-panel effective range

Setup touch-panel effective range

The present of the touch-panel effect range (before. after)

min X: (37, 36)

max X: (230, 232)

min Y: (36, 36)

max Y: (210, 211)

<Caution>

Please trace a white line.

Please move to calibration setup after this setup.

Adjustment steps

- 1) Trace the edge of the screen along the monitor resin frame with a round-headed thing to obtain the coordinates.
- 2) Press the [BACK] key.

Explanation of the displays

min_x(A,B): X coordinate of the touch panel • minimum value received max_x(A,B): X coordinate of the touch panel • maximum value received min_y(A,B): Y coordinate of the touch panel • minimum value received max_y(A,B): Y coordinate of the touch panel • maximum value received

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- A = A coordinate which is already stored in the SRAM (If there is no previous data in the SRAM, "min=90, max=180" will be displayed).
- B = An updated coordinate which is planned to be set in the SRAM this time (If there is no previous data in the SRAM, "min=90, max=180" will be displayed).
- [BACK]: The preset effective range is registered, and the screen will return to the remote controller inspection menu. The data of the effective range will be recorded in the SRAM.

In case the compensation value is not preset in the SRAM, the following initial (default) value will be entered automatically at the time of navigation system boot up.

 $min_x = 42$ (right edge limit value)

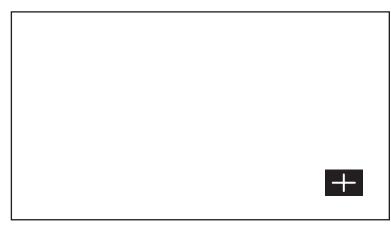
 $max_x = 246$ (left edge limit value)

min_y = 49 (bottom edge limit value)

max_y = 238 (top edge limit value)

2. Setup calibration

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Explanation

- A [+] cursor is displayed at 16 locations on the screen for calibration. Finally, verification of a single point is made. The cursor is always displayed at one location only, and moves on to the next location as the current one is correctly pressed.
- When pressing on the [+] cursor, make sure to press at the center of "+".
- The result of calibration will be recorded in the SRAM.
- If effective operation is not made for 30 seconds, the system will recognize as "erroneous end" and stops the calibration.

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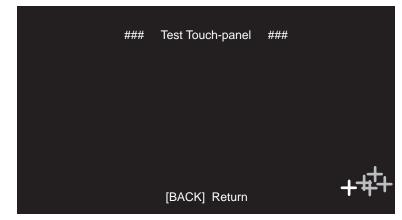
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3. Test Touch-panel

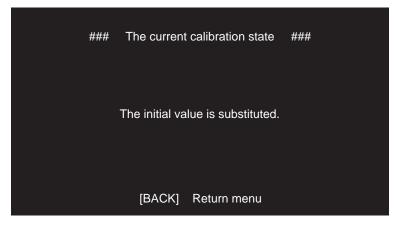


Explanation on touch panel misalignment verification test.

- 1) The test is intended to verify if the touched point on the touch panel is correctly recognized or not.
 - [+] cursor will be displayed at 16 locations on the screen.
 - The cursor will be displayed in "white color" only one at a time.
 - Each time the cursor is touched correctly, the next point will be displayed.
 - On the other hand, if it is recognized that the point touched was ± 4 dots vertically and ± 5 dots horizontally away from the center of the displayed [+] cursor, the erroneously recognized coordinate [+] will be drawn in "red color".
- 2) When touching the [+] cursor, touch the center of the + mark correctly.
- 3) If [BACK] is touched, the test will be finished, and the screen will return to the menu screen of the touch panel test mode.

If this test turns out to be NG, it will be necessary to redo "1. Setup touch-panel effective range" and "2. Setup calibration". Repeat the above steps once again.

4. Check now calibration codition



Explanation on the setting status of the calibration compensation value.

The current calibration compensation status is displayed.

The following data will be displayed.

"With no calibration value" (in white characters)

In case the compensation value does not exist in the SRAM.

"The effective range value is stored"

In case the compensation value for the upper limit and the lower limit are preset in the SRAM.

"The calibration compensation value is stored"

In case the calibration compensation values for the 16 points are preset in the SRAM.

"The effective range & calibration value is stored."

In case the upper limit and the lower limit values and the 16 points calibration values are preset in the SRAM.

"The initial value is substituted."

In case the value stored as the initial (default) value is preset in the SRAM.

"Error Condition"

In case the SRAM value is demolished or some unexpected situation is happening.

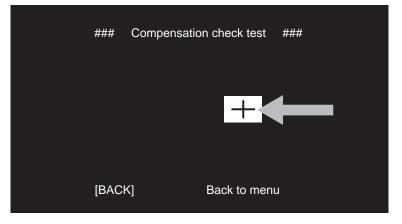
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5. Check Touch-panel compensation

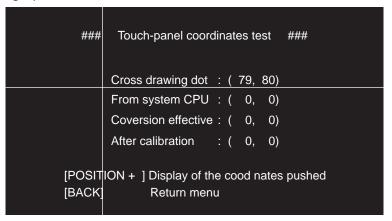


[BACK]: The system will return to the remote controller inspection menu.

Explanation of the inspection details

- Regarding this inspection, the title only will be displayed at the initialized stage.
- As shown by the arrow, press any desired location on the monitor.
- A coordinate after the calibration correction will be displayed by the [+] mark against the coordinate recognized as pressed.

6. Check Touch-panel graphics



[NAVI] + pressing the touch panel: The coordinate of the touch panel at that time will be displayed.

[†]: Horizontal line will move upward.

[↓]: Horizontal line will move downward.

[←] : Vertical line will move to the left.

[→]: Vertical line will move to the right.

[BACK]: The system will return to the remote controller inspection menu.

Explanation of the displayed coordinate (from top to bottom)

- (79, 80): Coordinate of the crossing point by the vertical and the horizontal lines (X direction, Y direction). $[(0\sim500, 0\sim240)]$
- (0, 0) : AD data value (X direction, Y direction) representing the coordinate of the pressed location received from the system control microprocessor.
- (0, 0): Coordinate (X direction, Y direction) obtained by normalizing the AD data value of the pressed location within the effective range.
- (0, 0): Coordinate (X direction, Y direction) obtained by adding the correction based on calibration to the normalized coordinate.

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7. Check Touch-panel navi coordinate

Remocon test

panel x_before = 35

panel y_before = 55

panel x_after = 28

panel y_after = 53

return to amenu by [DEST] and [TOUCH-PANEL]

[BACK] + pressing the touch panel will make the system return to the remote controller inspection menu.

Explanation of the displayed content.

panel x_before: X coordinate normalized (expanded) within the effective range. panel y_before: Y coordinate normalized (expanded) within the effective range. panel x_after: X coordinate obtained by adding the correction based on calibration. panel y_after: Y coordinate obtained by adding the correction based on calibration.

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	Item	Content	Information display	File name
1	System boot version	Version information of the system software BOOT section (FLASH) is displayed.	[**.**]→Version information of the system software BOOT section.	UC050BOT.USA
2	System OS version	Version information of the system software OS section (FLASH) is displayed.	[**.**]→Version information of the system software OS section. [NG]→System program does not exist.	UC050SYS.USA
3	GPS program version	Version information of the GPS program (DRAGON) is displayed.	[**.**]→Version information of the GPS program. [NG]→GPS program does not exist.	UC050GPS.PRG
4	Application version	Version information of the application program (SDRAM) is displayed.	[**.**]→Version information of the application program. [NG]→Application program does not exist.	EU050APL.PRG
5	Language data version	Version information of the language data (FLASH) is displayed.	[**.**]→Version information of the language data. [NG]→language data does not exist.	UC050DAT.USA
6	Syscom version	Version information of the system microprocessor is displayed.	[**.**]→Version information of the system microprocessor. [NG]→Communication with the system microprocessor has not been established.	
7	Syscom romc version	Version information of the system microprocessor ROM collection is displayed.	[**.**]→Version information of the system microprocessor ROM collection. []→No connection of ROM collection.	
8	Drive atapi version	Version information of the microprocessor of MS3 is displayed.	[**.**]→Version information of the microprocessor of MS3. [NG]→Communication with the microprocessor of MS3 has not been established.	
9	Monitor ucom version	Version information of the microprocessor of monitor is displayed.	[**.**]→Version information of the microprocessor of monitor. [NG]→Communication with the microprocessor of monitor has not been established.	
10	Monitor ucom romc version	Version information of the monitor microprocessor ROM collection is displayed.	[**.**]→Version information of the monitor microprocessor ROM collection. []→No connection of ROM collection.	
11	System language	Language of the system program (FLASH) is displayed.	[**.**]→System program file. [NG]→System program does not exist.	UC050SYS.USA
12	Application language	Language data file is displayed.	[**.**]→Language data file. [NG]→Language data does not exist.	UC050DAT.USA

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Error Information

Error Information

Descriptions of error information, for errors arising from system software problems, will be provided in this section.

Up to eight sets of information, related to the system software's errors, will be stored in the SRAM.

By executing hi_sysdwn() the line number (on which the error occurred), the error code and detailed information of the error, will be stored in the error log.

Hi_sysdwn() will be executed in the following two circumstances:

- 1. hi_sysdwn() will be intentionally stored if fatal errors occur with each BIOS.
- 2. If multiple exceptions, fatal exceptions, illegal command codes and trap command errors occur.

2. Error Log's Entry Function

Up to twenty-four sets of information, related to errors starting with the latest error, will be displayed by the error log entry function.

There are two types of error log displays.

The display will vary when the argument provided to hi_sysdwn(), depending on whether detailed information (such as program name, version number, creation date, creation time and creator name) exists or not.

1. When detailed information exists:

** ERROR INFORMATION **

ERCD = 00000028(40)

FILE = ini_usf.c

LINE = 510(000001fa)

VERS = 1.1.1.1

DATE = 2003/08/08

TIME = 06:07:26

AUTH = daisuke

ERROR-TIME ffff-ff ff:ff:ff

No.4 ← ERROR No.3 → No.2

Stop when push [BACK] button.

ERCD	Error code.	
FILE	Error occurring program name.	
LINE	Error occurring program line number.	
VERS	Error occurring program version number.	
DATE	Error occurring program creation date.	
TIME	Error occurring program creation time.	
AUTH	Error occurring program creator name.	
ERROR-TIME	Error occurrence date and time.	

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type	Error occurring program line number.
ercd	Error code.
inf	System down information.
ERROR-TIME	Error occurrence date and time.

If an error occurs due to a multiple exception, the definitions will change to the following:

type	Execution address at the time of error occurrence.
ercd	Contributing factor for the exceptions.
inf	Program status word at the time of error occurrence.
ERROR-TIME	Error occurrence date and time.

3. Error Information Switch

The product (with default settings) will display error messages to the user if an error occurs. Error information can be displayed if an error occurs by switching the error information in the test mode. In either case, the error log entry display will be the same.

- 1) Error message display (default settings):
- · Setting in the test mode:

TESTMODE MENU [SERVICE_MENU(TECHNICAL)] 1. Change to display error [Message] 2. Start within debug shell [On] 3. Program loading [Disc version] 4. GPS assessment 5. File maintenance 6. Program forced write <== back page ==> next page SYSTEM Ver. : [BOOT]0.65 [OS]0.65

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· Display when an error occurs:

An error has occured.
Please turn power off and on again.

Une erreur a été décelée. Veuillez éteindre puis rallumer le système.

Fehler.

Bitte System aus- und wieder einschalten.

- 2) Error information display
- Settings in the test mode:

TESTMODE MENU [SERVICE_MENU(TECHNICAL)]

- 1. Change to display error [Information]
- 2. Start within debug shell [Off]
- 3. Program loading [Version up]
- 4. GPS assessment
- 5. File maintenance
- 6. Program forced write

<== back page ==> next page SYSTEM Ver. : [BOOT]0.65 [OS]0.65

Display when an error occurs:

• If error information exists:

** ERROR INFORMATION **

ERCD = ffffffff(-1)

FILE = tsk_ini.c

LINE = 152(00000098)

VERS = 1.11

DATE = 2003/04/03

TIME = 04:59:10

AUTH = jin

ERROR-TIME ffff-ff ff:ff:ff

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• If error information does not exist:

** ERROR INFORMATION **

type = 00000109(265)
ercd = 00000001(1)
inf = ffe83230(-1560016)

ERROR-TIME ffff-ff ff:ff:ff

4. Watch dog timer

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This product has a built-in mechanism to monitor at a certain interval whether the software is correctly operating or not.

Once this mechanism becomes inoperable, "reset request" will be sent to the power supply microprocessor when a preset time (approximately 4 seconds) has elapsed.

In order to record operational situation of such an occasion, a special code which is not an error code is recorded in the ERCD.

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Port status information

Reverse Low
Parking Low
Pulse 0

[BACK] go to testmode menu.
[NAVI] information renewal.

3

Display	Content of inspection
Reverse	Reverse port status
Parking	Parking port status
Pulse	Pulse status

The pulse number of vehicle speed is indicated at 1/5 value of input frequency for vehicle speed signal. For example, when vehicle speed signal is 100Hz, the value becomes 20.

How to operate.

[BACK] : Return to the test mode menu. [NAVI] : Update of the port status.

GPS assessment

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FLASH	Display of DRAGON FLASH ROM version information.
GPS	Display of GPS version information.
SENSOR	Display of sensor version information.

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G-SENSOR	Display of G sensor	voltage		
GYRO	Display of gyro volta	age		
POWER	Display of power su	pply voltage		
FIT UP	Display of installation	n status		
	Display	Status		
	• NG	Installation position is NG.		
	• OK	Installation position is OK. (3		
	OK (Better)	Installation position is OK. (2	nd best)	
	OK (Best)	Installation position is OK. (B	est)	
DISTANCE	Display of distance of	calculation status.		
	Display	Status		
	• INITIALIZE	Sensor initial learning is under way.		
	• GPS	GPS distance. (Model without G sensor.		
	No pulse connection.)			
	• G-SENSOR	G sensor distance. (simple hybrid.)		
	• ND-PG1	ND-PG1 distance.		
	SPEED PULSE	Vehicle speed pulse distance.		
LOW SPEED	Display of minimum (Depends on DISTA)	output speed of a low speed l NCE status.)	NG vehicle.	
	DISTANCE status	SPEED PULSE status Display		
		Low vehicle speed pulse	CHECK	
		learning is under way.		
	SPEED PULSE	Low vehicle speed pulse is	OK	
		OK.		
		Low vehicle speed is NG.	NG xx[km/h]	
	Others			

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DVD Test Modes

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1. Test mode starting procedure

Please select "MS3 check" to start test mode.

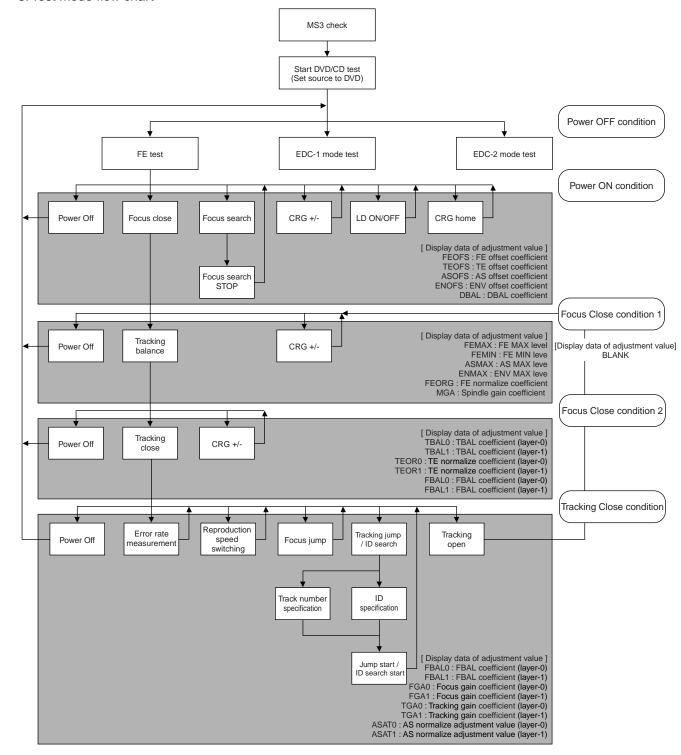
2. Keys used for the DVD test mode

[OK] : Selection decided.

[BACK] : Go back.

Directional keys : [↑ ↓ ← →] keys

3. Test mode flow chart



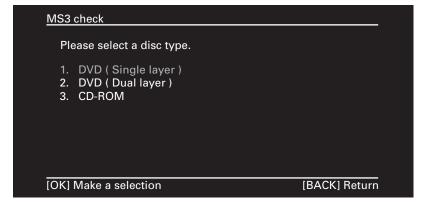
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4. Description of test mode

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• [X-3055 Test Mode] : Initial screen



[Direction + Enter] [1] Starts DVD (single layer) test. (Use a single layer DVD disc.)

[2] Starts DVD (dual layer) test. (Use a dual layer DVD disc.)

[3] Starts CD test. (Use a CD disc.)

[Return] Returns to the test mode menu

• [X-3055 Test menu] : Main menu screen

MS3 check - DVD (Dual layer)

Status: Power off Display data:

Model: DVD-ROM ATAPI Model X-3055
Firm: ver 8.01

1. FE test
2. EDC-1 mode test
3. EDC-2 mode test

[OK] Make a selection [BACK] Return

Status: "Power off" under normal condition.

Model: Model name of the drive being used.

Firm: Version number of the drive being used.

[Direction + Enter] [1] Starts FE test mode.

[2] Starts EDC-1 mode test.[3] Starts EDC-2 mode test.

[Return] Returns to the test mode menu.

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• [FE Test menu] : FE test mode menu screen

FE test - DVD (Dual layer) Status: Power on Display data: 00000001 **TEOFS** ASOFS ENOFS DBAL **FEOFS** 0100 FD82 FF80 FFBE Focus close Focus search [Off] CRG +/- (Right(+) / Left(-)) LD [On] CRG home [OK] Make a selection [BACK] Return

Status : "Power on" under normal condition.
Display data : Displays an error code in case of an error.

Adjusted value: See the Test Mode Flow Chart for the contents of adjusted values.

[Direction + Enter] [1] Focus close (Turn the LD on before execution.)

[2] Focus search (Turn the LD on before execution.) Toggle ON/OFF with [Enter] key.

[3] Carriage adjustment

The carriage moves outward with $[\rightarrow]$ key and moves inward with $[\leftarrow]$ key.

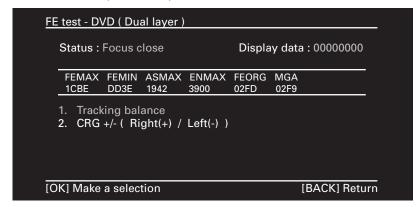
[4] LD switching

Toggle ON/OFF with [Enter] key.

[5] Moves the carriage to the home position.

[Return] Returns to the main menu.

• [FE Test 2] : FE test mode screen (focus close)



Status : "Focus close" under normal condition.

Display data : Displays an error code in case of an error.

Adjusted value: See the Test Mode Flow Chart for the contents of adjusted values.

[Direction + Enter] [1] Tracking balance

[2] Carriage adjustment

The carriage moves outward with $[\rightarrow]$ key and moves inward with $[\leftarrow]$ key.

[Return] Returns to the main menu.

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Status : "Focus close" under normal condition.
Display data : Displays an error code in case of an error.

Adjusted value: See the Test Mode Flow Chart for the contents of adjusted values.

[Direction + Enter] [1] Tracking close

[2] Carriage adjustment

The carriage moves outward with $[\rightarrow]$ key and moves inward with $[\leftarrow]$ key.

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[Return] Returns to the main menu.

• [FE Test 4] : FE test mode screen (tracking close)

FE test - DVD (Dual layer) Display data: 00000000 Status: Tracking close TGA0 FBAL0 FBAL1 FGA0 FGA1 TGA1 ASAT0 ASAT1 E200 0200 01F2 0200 0233 031C 1. Error rate Read speed [- - - - -] Focus jump [Layer -] Track jump / ID search 5. Tracking open (Focus close status) [BACK] Return [OK] Make a selection

Status : "Tracking close" under normal condition.
Display data : Displays an error code in case of an error.

Adjusted value: See the Test Mode Flow Chart for the contents of adjusted values.

[Direction + Enter]

[1] Error rate measurement

Displays the error rate by index (X.XXXE-X).

(Other operations cannot be executed during error rate measurement.)

[2] Playback-speed switching

Toggle (DVD x2.5CAV/ x1CLV, CD x10CAV/ x2CLV) with [Enter] key.

Display data : 00000000 = CAVx1 00000001 = CLVx1

00000002 = CAVx10

00000003 = CLVx2

[3] Focus jump

Toggle (Layer 0/1) with [Enter] key. Display data: 00000000 = Layer 0

00000001 = Layer 1

[4] Track jump/ID search

Toggle ON/OFF with [Enter] key.

[5] Track opening

Clears the adjusted value display and moves to the focus close status.

[Return] Returns to the main menu.

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• [FE Test 5] : FE test mode screen (track jump/ID search)

[Direction + Enter]

1

- [1] Backward track jump
- [2] Forward track jump

Select the number of tracks to be jumped with [Direction] key. Press [Enter] key

to execute the jump.

[3] Searching the specified layer and ID

Select the layer and ID (address) to be searched with [Direction] key. Press [Enter] key to execute the search. Specify the address in "mmssff

(minute: second: frame)" for CD-ROM.

[Return]

Ε

Returns to the tracking close status.

• [EDC-1/EDC-2 test menu] : EDC-1/EDC-2 Test Menu screen

EDC-1 mode test - DVD (Dual layer)

Status : Normal mode Display data : 200301C0

Please input start ID & layer.

Layer : 0 ID : 030000

[OK] Change ID [BACK] Return

EDC-1 : Executes EDC test continuously. EDC-2 : Executes EDC test by block unit.

Status : "Normal mode" under normal condition.

Adjusted value: See the Test Mode Flow Chart for the contents of adjusted values.

Layer : Layer being tested ID : ID being tested

[Direction + Enter] Select the layer and ID (address) of the jump destination with [Direction] key.

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Press [Enter] to execute the jump. Specify the address in "mmssff (minute: second:

frame)" for CD-ROM.

[Return] Returns to the main menu.

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Display data (Error code)

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E0000000 : Overrun error (Communication error)

E0010000 : Framing error (Communication error)

E0020000 : Writing, setting error (An error has occurred at the time of setting M62 CRAM, a command, etc.)

E0030000 : Parameter error (Set parameter is invalid.) E0040000 : Command error (Set command is invalid.)

E0060000 : Command uncompleted

E0100000 : Decode normally completed (Decode has been normally completed from the specified ID to the final

target ID in EDC mode.)

E0FFFF00 : Hard reset or soft reset

The followings are valid only during error rate measurement or in EDC mode

E0015300 : Media Load or Eject Failed (Mechanical error) E0018000 : High Temperature (High temperature sense) E0018100 : Voltage Out of Range (VD power supply failure)

E0023A00 : Medium Not Present (No disc) E0030200 : No Seek Complete (Seek failure)

E0031100 : Unrecovered Read Error (Formatter Error, CRC (EDC) Error, Uncorrectable Error, etc.)

E0030900 : Track Following Error (Servo failure)

In case that the above error codes cannot be obtained, ATAPI BIOS error code will be displayed.

[ATAPI BIOS error code]

Error code name	Return value	Description	
NO_ERROR	00000000H	Completed	
ERR_ATAPI_RSV	ffff1000H	Reserved	
ERR_ATAPI_DNR	ffff1001H	Device has not been prepared. Device has not completed TOC search, etc.	
ERR_ATAPI_ANF	ffff1002H	The target address has not been found.	
ERR_ATAPI_HEAT	ffff1003H	The device temperature is out of operational range.	
ERR_ATAPI_MECHA	ffff1004H	Device cannot be operated because of any mechanical reason. Device has not been found on ATAPI bus.	
ERR_ATAPI_NODISC	ffff1005H	Disc has not been found.	
ERR_ATAPI_PARAM	ffff1006H	An error has been found in parameter or command.	
ERR_ATAPI_REENT	ffff1007H	A reentrant prohibition violation has occurred.	
ERR_ATAPI_DISC	ffff1008H	Disc error A command for data has been issued to an audio track. Access to an unreadable disc such as reversely inserted disc.	
ERR_ATAPI_TMOUT	ffff1009H	Time out No response from device for a certain period of time.	
ERR_ATAPI_DATA	ffff100aH	Error cannot have been corrected.	
ERR_ATAPI_EJECT	ffff100bH	Disc has been ejected.	
ERR_ATAPI_DCHG	ffff100cH	Disc change history exists. Disc change has been executed since the last command.	
ERR_ATAPI_MODE	ffff100dH	X-3055 mode error A command for test mode has been issued in Normal mode, or other way round.	
ERR_ATAPI_OFF	ffff100eH	ATAPI BIOS is OFF.	
ERR_ATAPI _TEST	ffff100fH	An error has occurred with ATAPI_TEST command.	

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[ATAPIBIOS <-> MS3 error code association table]

ATAPI BIOS ERROR CODE	Sense Key	ASC	Comment
		0X24	Inquiry, Mode Sense, Mode Select, Read DVD Structure
		0X1A	Mode Select
	0X05 Illegal Request	0X26	Mode Select
ERR_ATAPI_PARAM		0X39	Mode Sense
		0X20	
	0X0B Aborted Command	0X4E	
ERR_ATAPI_ANF	0X05 Illegal Request	0X21	Seek, Read(12)
EDD ATABL MEGUA	0X01 Recovered Error	0X53	
ERR_ATAPI_MECHA	0X04 Hardware Error	0X85	
ERR_ATAPI_HEAT	0X01 Recovered Error	0X80	
ERR_ATAPI_NODISC	0X02 Not Ready	0X3A	
	0X02 Not Ready	0X04	
ERR_ATAPI_DNR	0X06 Unit attention	0X29	
	0X02 Not Ready	0X30	
ERR_ATAPI_DISC	0X03 Medium Error	0X02 0X09	
	0X05 Illegal Request	0X30 0X64	
ERR_ATAPI_DATA	0X03 Medium Error	0X11	
ERR_ATAPI_DCHG	0X06 Unit attention	0X28	

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TEST DISC Part No.: GGV1237

REMOTE CONTROLLER Part No.

Part No.	Description
CXB7427	Co-packed remote controller with AVIC-8DVD/EW
CXB7426	Co-packed remote controller with AVIC-9DVD/EW, UC
CXB9118	Co-packed remote controller with AVIC-8DVD-2/EW, -9DVD-2/EW, -90DVD/UC
CD-R11	Optional remote controller

1. Start/End

1-1. Start

When the test disc is inserted, the title "NN642 TEST DISC" will be displayed. If [RETURN] key is pressed while the title is being displayed, the menu screen will be displayed. If no key is pressed, the first screen of the inspection screen for line will be displayed.





1-2. End

No action is taken.

2. Key operation

- In the case of inspection screen for line
- 1. The inspection screen and the menu screen can be switched alternately using the [CR] key on the remote controller.
- 2. The screen will go back to the previous screen by the [†] key on the remote controller.
- 3. The screen will move forward to the next screen by the [↓] key on the remote controller. (Unless the inspection is finished, the screen will not move forward. The screen will not move forward, too, if there is an NG item.)
- * Refer to the explanation of each screen for the details.
- In the case of service menu screen
- 1. Select an inspection item by the [↑] and [↓] keys on the remote controller, and inspection screen will appear when the [CR] key is pressed.
- 2. When the [RETURN] key on the remote controller is pressed, the screen will go back to the menu screen.
- * Refer to the explanation of each screen for the details.

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--- Self Test Menu --- External Connection
 Data Communication (Short)
 Data Communication (Open)
 Natural Drawing & Rear View
 VTR In check
 GPS Self check
 Software version display [CR KEY] The selected menu is started. --- Self Test Menu ---8. Language Flag setup mode9. Memory all cleay10. GPS sensitivity measurement11. Picture RGB check12. GPS information 13. Sound play
14. File Maintenance mode [CR KEY] The selected menu is started. --- Self Test Menu ---15. Picture check16. Device check(Design engineer only)17. Memory all clear (for Service)18. BackUp Memory clear [CR KEY] The selected menu is started.

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Menu screens

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1. Connection check

1. Connection check Illumination signal OFF Parking brake signal ON Reverse gear signal NOR Car speed signal Battery voltage Gyro voltage / sigma 2.450V OK / 1.1 OK 2.050V OK / GSENS voltage / sigma 1.1 OK Heading CONST Pitch Remote controller **MENU** Body key K mode **OFF** [joy stick down] It progresses to the next inspection.

- The status of the item indicated in the above figure will be updated every second.
- When the gyro is in operation, a BEEP sound will be made when the G sensor is activated. Right: 500Hz, Left: 700Hz. Up: 800Hz, Down: 600Hz

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Conditions for moving on to the next inspection

Illumination status is changing between ON and OFF.

Parking brake status is changing between ON and OFF.

Reverse status is changing between NOR and REV.

Pulse is changing to a value other than 0/0.

All keys on the main body as listed below have been pressed at least once.

"DEST", "INFO", "MEMO", "TRAFFIC"

The value of the gyro changes to right and left at least once for each.

* Until it changes at least once for each, "--" is displayed even when it is OK.

(ex.) When the orientation status is left rotation level 1, it is displayed as below.

Heading Left </ Right

(ex.) When the orientation status is uphill inclination level 1, it is displayed as below.

Pitch Upper +/ Lower

After the value of the gyro changes to right and left at least once for each, the dispersion of the gyro is OK for five consecutive seconds or longer.

* "CHK" is displayed during continuous inspections.

The voltage of the gyro, and the voltage and temperature of the temperature sensor are OK.

K mode status is changing between ON and OFF.

* K mode is for develop use. K mode status must be "OFF" for normal operation.

Standard value for other items

GYRO voltage

OK: 2.5±0.15 USABLE: 2.5±0.30

• GYRO variation OK: Less than 30

^ -----

• G sensor voltage

OK: 2.0±0.25 USABLE: 2.0±0.40

G sensor variation
 OK: Less than 80

<Supplemental explanation regarding error display>

Displayed message	Details of the error
No connection to DRAGON	An error when communication with DRAGON cannot be established.
	Communication error due to a hardware problem could be the cause.
	It is highly possible that the hardware on the DRAGON side is defective.
Command error	Time out error for response to BIOS call.
	Communication error due to a hardware problem could be the cause.
	It is highly possible that the hardware on the DRAGON side is defective.
Unknown error	Error due to unknown reason.

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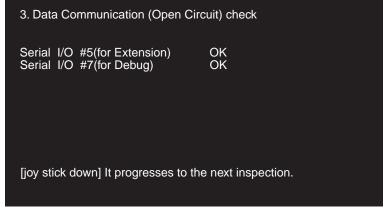
2. Data Communication (Short Circuit) check (Not for service)

2. Data Communication (Short Circuit) check

Serial I/O #5(for Extension) OK
Serial I/O #7(for Debug) OK

[joy stick down] It progresses to the next inspection.

- · SIO connection short is checked.
- Loop back check is performed on 5CH and 7CH.
- Wait screen is displayed until the checking is completed.
- When [RETURN] key on the remote controller is pressed while the inspection result is being displayed on the screen, inspection will be performed once again.
- Only in the case of OK, you can move on to the next inspection by the [↓] key on the remote controller.
- 3. Data Communication (Open Circuit) check (Not for service)



- SIO connection open is checked.
- Check is performed on 5CH and 7CH.
- Do not connect anything to the terminal. OK will be indicated under "open" condition.
- Wait screen is displayed until the checking is completed.
- When [RETURN] key on the remote controller is pressed while the inspection result is being displayed on the screen, inspection will be performed once again.
- Only in the case of OK, you can move on to the next inspection by the [\ \ \ \] key on the remote controller.

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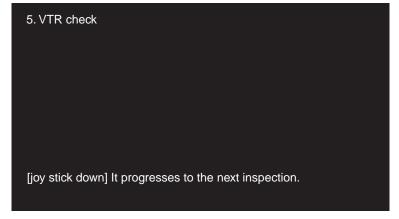
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- Natural image consisting of 256 colors will be drawn on the BG screen.
- ADPCM 1kHz sine wave at the sampling rate of 19kHz will be output for 30 seconds.
- Rear view image will be displayed on the right hand side of the screen.
- Volume level can be changed by the [←] and [→] keys on the remote controller. (0 to 9)
 [JPEG file name: ZHITO1.JPEG]
 [Voice file name: A19K01KS.WAV]
- You can move on to the next inspection by the [
 ↓] key on the remote controller.

5. VTR check



- External input image (VTR input image) is displayed and voice is outputted.
- You can move on to the next inspection by the [$\mbox{\mbox{$\downarrow$}}$] key on the remote controller.

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6. GPS Self check

6. GPS Self check

2004/11/24 15:00:00

Using satellites NO.
01 02 03 04 05 06 07 08

Antenna connection

Receiving signal level
Latitude

3D 35 55 47.1
Longitude

13.9 28 30.0

[joy stick down] It progresses to the next inspection.

- GPS receiving status will be displayed.
- Conditions to move on to the next inspection.

Antenna connection is OK.

Data is received from one or more satellite.

Time is being displayed.

- When all the conditions are met, the background color will change to blue.
- Only when all the conditions are met, you can move on to the next inspection by the [↓] key on the remote controller.

It should be noted, however, that you will not be able to move on to the next inspection if there is an error (background color is red) even if the conditions are met.

<Supplemental explanation regarding error display>

Displayed message	Details of the error
No connection to DRAGON	This is an error when communication with DRAGON is not established.
	Communication error due to a hardware problem could be the cause.
	It is highly possible that the hardware on the DRAGON side is defective.
Command error	Time out error for response to BIOS call.
	Communication error due to a hardware problem could be the cause.
	It is highly possible that the hardware on the DRAGON side is defective.
Invalid data	This is an error when request is made while the data for response is not
	prepared (not obtained from DRAGON).
	Communication error due to a hardware problem could be the cause.
	It is highly possible that the hardware on the DRAGON side is defective.

7. Software version

7. Software version System boot / OS version 0.17 / 0.17Syscom version 6.10 Monitor ucom version 6.01 Drive apl version ver 4032 GPS program version 5.08 04/04/01 4.10 GPS model 05UC DVD (0x29) Calibration check OK [joy stick down] It progresses to the next inspection.

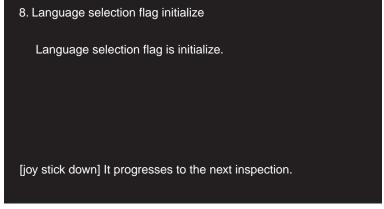
- It indicates the version information of the software.
- Conditions to more on to the next inspection.
 - "GPS model" is "05UC DVD".
 - "Calibration check" is "OK". OK: "Setup touch panel effective range" in Testmode is done.
- Only when all the conditions are met, you can move on to the next inspection by the [↓] key on the remote controller.

It should be noted, however, that you will not be able to move on to the next inspection if there is an error (background color is red) even if the conditions are met.

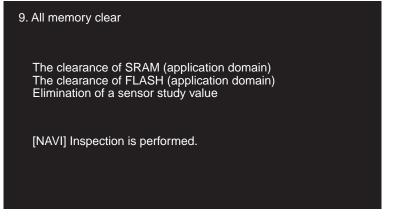
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- When the system enters into this inspection, language selection will be set to the original setting made at the time of shipment (i.e. no setting).
- * The setting is made to display the screen for selecting the language to be used at the initial boot up after the shipment out of the factory.
- The setting is made when the system enters into this inspection.
- You can move on to the next inspection by the [\ \] key on the remote controller.
- 9. All memory clear (Not for service)



- SRAM (application domain) is cleared.
- FLASH (application domain) is cleared.
- Sensor learning level is cleared.
- If SRAM clear is not successful, FLASH will not be cleared.
- After the inspection screen is displayed, the above process is executed by the [NAVI] key on the remote controller.
- The result of the process is displayed.
- Only when everything is OK, you can move on to the next inspection by the [↓] key on the remote controller.

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10. GPS sensitivity measurement

		neasurement	
Satellite N	NO. 3 [<>	to select satell	ite]
CH.	Look	SNR(AMU)	SNR(dB)
1	OK	12.3 ´	23.4
2 3 4 5 6 7 8	OK	12.3	23.4
3	OK	12.3	23.4
4	OK	12.3	23.4
5	OK	12.3	23.4
6	OK	12.3	23.4
/	ŎK	12.3	23.4
	OK	12.3	23.4
ALL	OK	Sensitivity:	20.4(db)
		DoppRMS:	1.78(Hz)
[joy stick	down] Raw	work inspection	is ended.

- GPS can be changed by the [←] and [→] keys on the remote controller.
- Sensitivity of the selected GPS is displayed by the [RETURN] key on the remote controller.
- Production engineering inspection is ended and service menu is displayed by the [↓] key on the remote controller.

<Supplemental explanation regarding error display>

Displayed message	Details of the error
No connection to DRAGON	This is an error when communication with DRAGON is not established.
	Communication error due to a hardware problem could be the cause.
	It is highly possible that the hardware on the DRAGON side is defective.
Command error	Time out error for response to BIOS call.
	Communication error due to a hardware problem could be the cause.
	It is highly possible that the hardware on the DRAGON side is defective.

11. Picture RGB check

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- RGB bridge is inspected.
- The screen can be switched by the [←] and [→] keys on the remote controller.
- RGB is drawn in the pattern of R 100% \rightarrow R 50% \rightarrow G 100% \rightarrow G 50% \rightarrow B 100% \rightarrow B 50%.
- Total of 6 screens will be displayed.

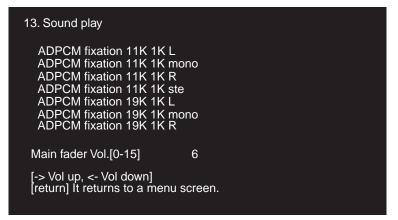
Е

12. GPS information

12.0	12. GPS information									
0E SN 10 26 18 23 17	/ Azi 119 25 310 305 317 196	39 60 25 33 49 56	0.0 0.0 0.0	Flag UY UYC- m m m	Acc 3 2 f f f	01/03/28 2 Doppler -2249 -1051 +0 +0 +0 +0	SrchW 2883 3496 12487 21812 21812 21812			
14 4 Posi	142	81	0.0 0.0 Ver & D	m m Diag Er	f 3 r Info	+0 +0	5994 5994			

- "Position information" will be displayed when the cursor is at the "Position" position and the [CR] key is pressed on the remote controller.
- "Status information" will be displayed when the cursor is at the "Sv Stat" position and the [CR] key is pressed on the remote controller.
- "Diagnosis information" will be displayed when the cursor is at the "Ver&Diag" position and the [CR] key is pressed on the remote controller.
- "Error information" will be displayed when the cursor is at the "Err Info" position and the [CR] key is pressed on the remote controller.
- When an inspection is performed, "status information" (the screen shown above) will be displayed first.

13. Voice play back



- Voice file (WAVE format) will be played back.
- The voice selected by the [CR] key on the remote controller will be played back.
- Volume level can be changed by the [←] and [→] keys on the remote controller.

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14. File maintenance

• File can be copied, deleted or dumped. Refer to HELP for "how to use" each function.

15. Picture check MENU

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15. Picture check MENU

1. Plane
2. Color Bar
3. Cross Hatch
4. Sweep
5. Step
6. Ramp
7. Window
8. Mono Scope
9. Vertical Resolution Column

[Push OK to make a selection]
[return] It returns to a menu screen.

A pattern is selected by the $[\uparrow]$ and $[\downarrow]$ keys and an image is displayed by the [CR] key.

- 1. Plaii
 - ...Display is made in the order of black, blue, red, pink, green, light blue, yellow and white by the $[\leftarrow]$ and $[\rightarrow]$ keys operation on the remote controller.
 - 2. Color bar
 - ...White, yellow, light blue, green, pink, red, blue, black bars will be displayed from left to right.
 - 3. Cross hatch
 - 4. Sweep
 - 5. Step
 - 6. Lamp
 - 7. Window
 - 8. Mono scope
 - 9. Cycle line 1
 - 10. Cycle line 2
 - 11. Horizontal stripe 1
 - 12. Horizontal stripe 2
 - 13. Chinese character pattern
 - 14. Map (map.jpg)
 - 15. Natural image (nature.jpg)
 - 16. Portrait 1 (hito1.jpg)
 - 17. Portrait 2 (hito2.jpg)

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- The device inspection above is performed only for engineering.
- (Device selection)

Select a device with the [↑] and [↓] keys on the main unit, and decide with the [CR] key.

- (Pattern selection)
 - Select a pattern with the $[\uparrow]$ and $[\downarrow]$ keys on the main unit, and start the inspection with the [CR] key.
 - * Only when ASIC is selected, the bit shift pattern can be selected.
 - Return to the device selection screen with the [RETURN] key on the main unit.
- (During the inspection)

Stop the inspection with the [RETURN] key on the main unit, and return to the device selection screen.

17. All memory clear (for Service)

The clearance of SRAM (application domain)
The clearance of FLASH (application domain)

[NAVI] Inspection is performed.
[return] It returns to a menu screen.

- SRAM (application domain) is cleared.
- FLASH (application domain) is cleared.
- If SRAM clear is not successful, FLASH will not be cleared.
- After the inspection screen is displayed, the above process is executed by the [NAVI] key on the remote controller.
- The result of the process is displayed.

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18. Initialization of a backup variable

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18. Initialization of a backup variable

A backup variable is initialized.

Cautions
System reset is carried out after initialization.

[NAVI] A backup variable is initialized.
[return] It returns to a menu screen.

- Back up variables are initialized by the [NAVI] key on the remote controller for system reset.
- The screen will return to the menu screen by the [RETURN] key on the remote controller.

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7. GENERAL INFORMATION

7.1 DIAGNOSIS

7.1.1 DISASSEMBLY

Removing the Case (not shown)

1. Remove the two screws and then remove the Case.

Preparation for Removing the Grille Assy

To remove the Grille Assy block, it must always be moved to the OPEN position.

1. Rotate the gear using a screwdriver, etc. (ø2.8 or smaller) from the slit on the bottom surface of the main unit (Fig.1) in the direction of the arrow, and move the Grille Assy to OPEN position.

Note)

Though the gear is heavy, please turn carefully not to inflict too much force. Turning with excessive force may cause damage in the rack or gear in the driving section.



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Removing the Monitor Assy

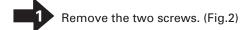
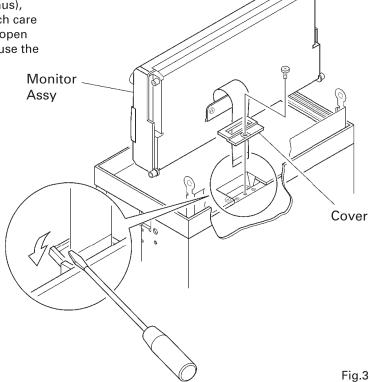




Fig.2

(2) Remove the screw to remove the Cover. Do not pull the connecting flexible cable. (Fig.3)

(3) Remove the flexible cable from the connector to remove the Monitor Assy. Push the lid of the connector up with the top of precision screwdriver (minus), and then remove the flexible cable. Take much care not to pull the connector forcedly or break it open because it is easy to be damaged. And also, use the precision screwdriver in the same way in the installation. (Fig.3)



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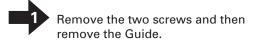
222

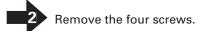
С

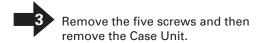
D

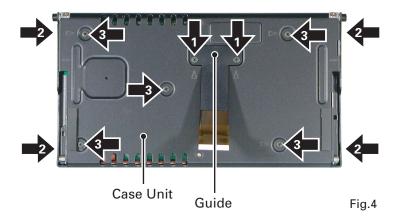
Ε

Removing the Case Unit (Fig.4)









Removing the Monitor PCB (Fig.5)



Remove the five screws.

Disconnect the connector and then remove the Monitor PCB.

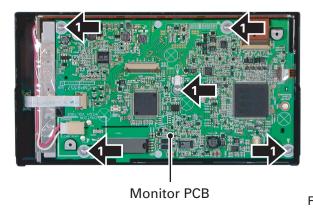


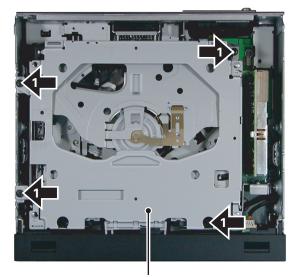
Fig.5

■ Removing the CD Mechanism Module (Fig.6)



Remove the four screws.

Disconnect the connector and then remove the CD Mechanism Module.



CD Mechanism Module

Fig.6

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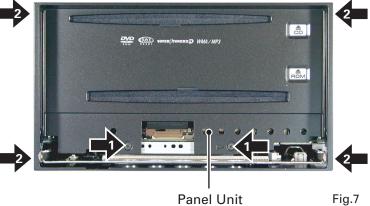


Removing the Panel Unit (Fig.7)

Remove the two screws.



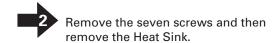
Disconnect the connector and then remove the Panel Unit.



Panel Unit

■ Removing the Heat Sink (Fig.8)

Remove the two screws.



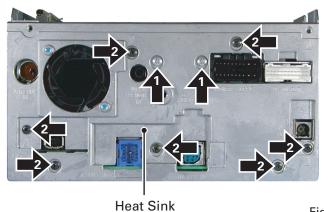
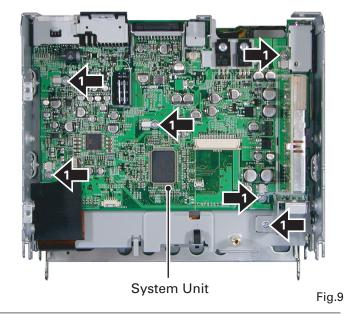


Fig.8

Removing the System Unit (Fig.9)

Remove the six screws.

Disconnect the connector and then remove the System Unit.



В

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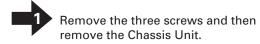
D

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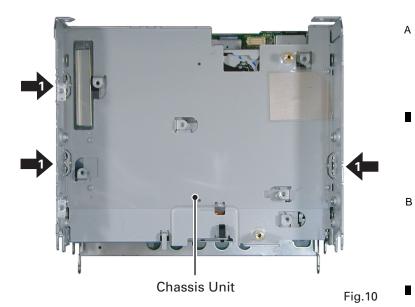
AVIC-D1/UC

Removing the Chassis Unit (Fig.10)

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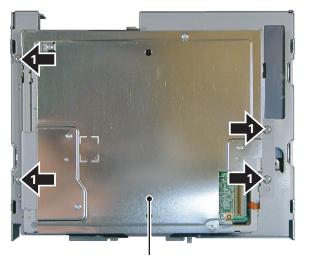
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Removing the DVD Mechanism Module (Fig.11)



Remove the four screws and then remove the DVD Mechanism Module.



DVD Mechanism Module

Fig.11

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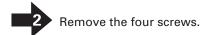
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AVIC-D1/UC

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■ Removing the CC Unit (Fig.12)





Disconnect the connector and then remove the CC Unit.

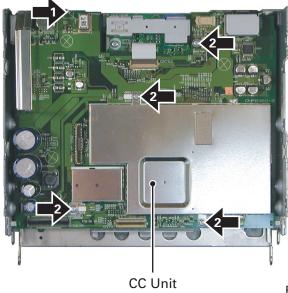
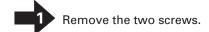


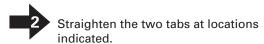
Fig.12

Removing the Connector Unit (Fig.13)



Disconnect the connector and then remove the Connector Unit.

Removing the Main PCB Unit (Fig.13)



Remove the screw.

Disconnect the connector and then remove the Main PCB Unit.

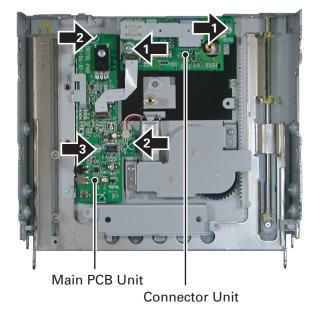


Fig.13

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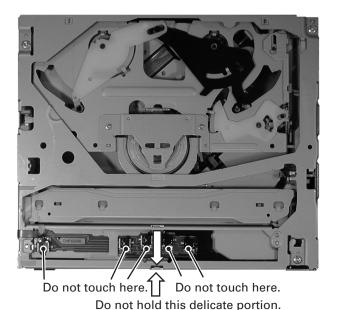
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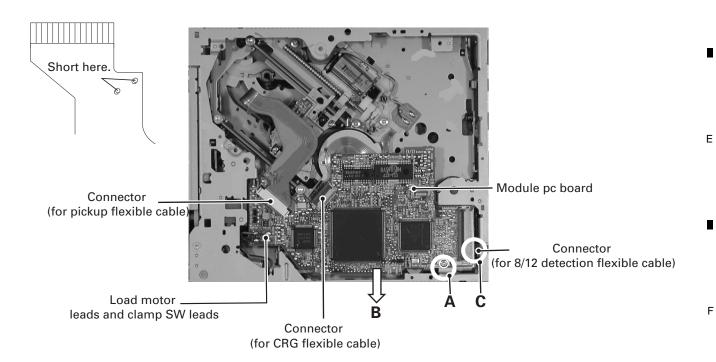
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- 1. Hold the upper and main frames.
- 2. Do not hold the front portion of the upper frame. It is a delicate part.
- 3. Do not touch the switches on the top panel.
- 4. Be careful not to catch the flexible cables.



Removing the module pc board

- 1. Set the mechanism to the lock position (disc load standby position).
- 2. Place the mechanism module upside down.
- 3. Short the two lands on the pickup flexible cable as shown below.
- 4. Be sure to disconnect the pickup flexible cable and the CRG flexible cable from the connectors to protect them from damages.
- 5. Remove solder from the load motor leads and clamp SW leads.
- 6. Loosen the two fixing screws. Lift the position A of the module pc board lightly and move it in the direction B to remove it. Be careful not to damage the flexible cable C.
- 7. Disconnect the 8/12 detection flexible-cable from the connector.



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Removing the pickup unit

- 1. Remove the module pc board in accordance with the procedure of "Removing the module pc board."
- 2. While holding the pickup case, remove the skew screw (main).
- 3. Lifting the end of the pickup rack, slide the main shaft, and remove the pickup unit.

Notes:

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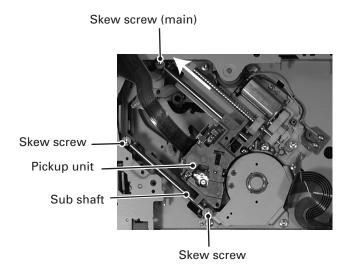
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Replacing the pickup unit requires the skew adjustment.

Remove glue from both ends of the main and sub shafts, and skew stud.

Do not reuse the old skew screw. Be sure to use a brand-new skew screw supplied with a new pickup unit.

Fix the skew screw with glue (GYL1001) after adjustment.



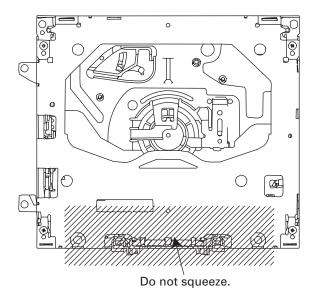
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AVIC-D1/UC

How to hold the Mechanism Unit

- 1. Hold the top and bottom frame.
- 2. Do not squeeze top frame's front portion too tight, because it is fragile.

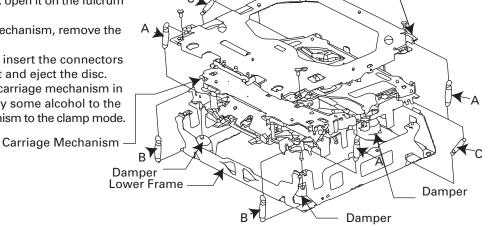


Upper Frame

Removing the Upper and Lower Frames

- 1. With a disc clamped, remove the four springs (A), the two springs (B), the two springs (C), and the four screws.
- 2. To remove the upper frame, open it on the fulcrum A.
- 3. While lifting the carriage mechanism, remove the three dampers.
- 4. With the frames removed, insert the connectors coming from the main unit and eject the disc.

Caution: Before installing the carriage mechanism in the frames, be sure to apply some alcohol to the dampers and set the mechanism to the clamp mode.



AVIC-D1/UC

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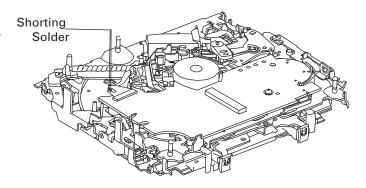
Removing the Pickup Unit

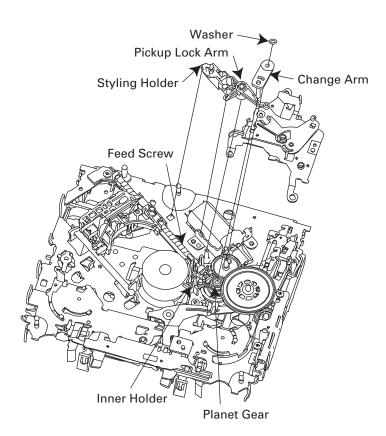
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1. Apply shorting solder to the Pickup flexible cable. Disconnect the cable.

- 2. Set the mechanism to the clamp mode.
- 3. Remove the lead wires from the inner holder.
- 4. Remove the washer, styling holder, change arm, and pickup lock arm.
- 5. While releasing from the hook of the inner holder, lift the end of the feed screw.

Caution: In assembling, move the planet gear to the load/eject position before setting the feed screw in the inner holder.





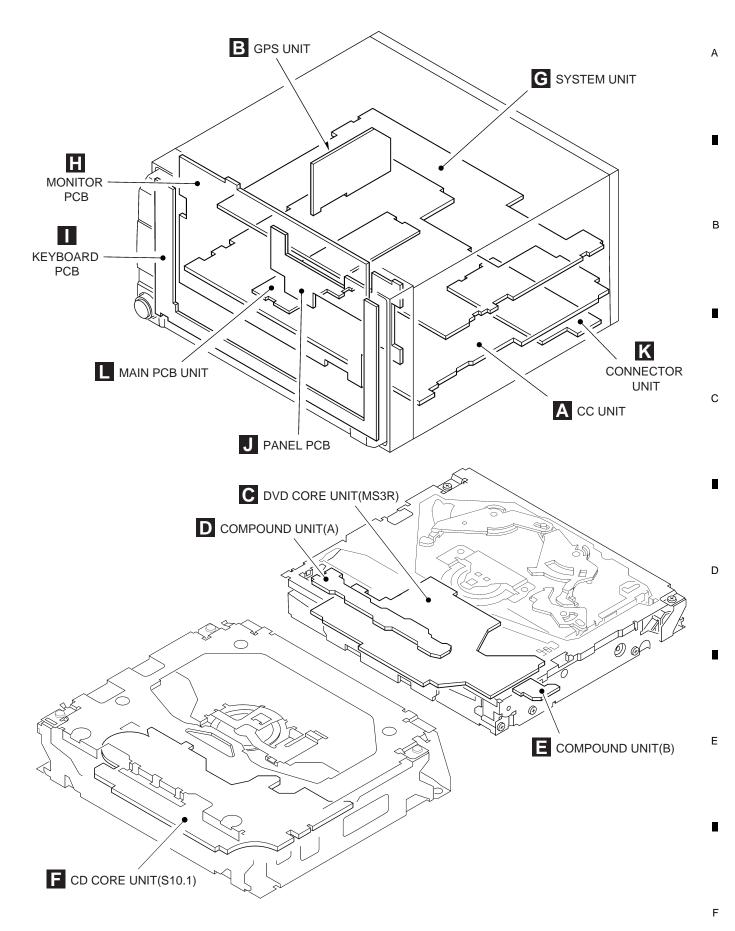
AVIC-D1/UC

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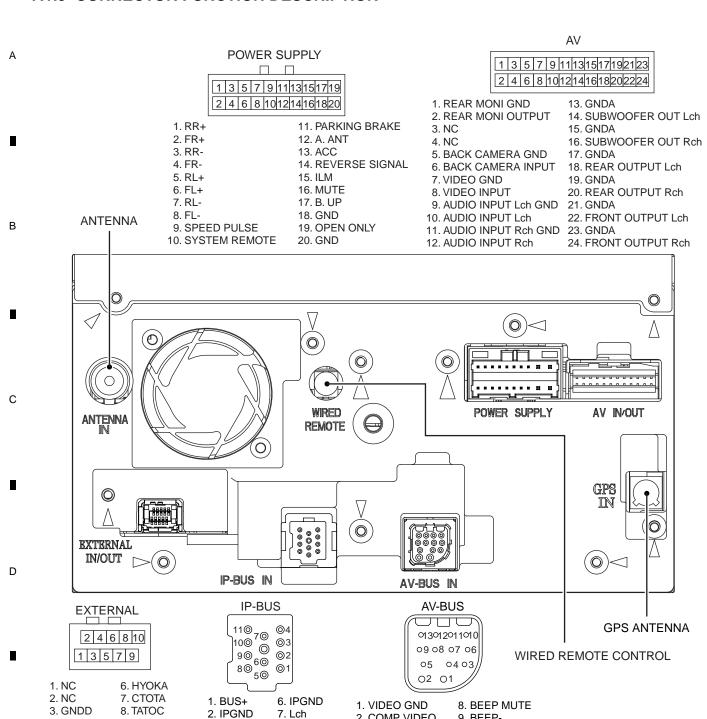
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7.1.2 PCB LOCATIONS



AVIC-D1/UC

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4. CTOEX

5. EXTOC

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9. VTA

10. GND

3. IPGND

4. MUTE

5. BUS-

8. ASEN

9. Rch

10. GND

11. GND

2. COMP VIDEO

3. NC

4. IP-SEL1

5. IP-SEL2

6. LED-V

7. GND

AVIC-D1/UC

9. BEEP-

12. AV ON

13. BEEP+

10. REMOUT

11. NEW AV SENS

TC7SH00FUS1

7.2 IC

K4S561632E-TL75 PE5454B BH7236AF UPB1027GS UPD63763GJ HY57V561620CLT-H UPD705103GM-180S1 PD3390A PE5430A TC74LCX08FTS1 ADC12H034CIMSAS1 TC7SH04FUS1 PD6519A PD6336C PE5479A PEH007A OZ961ISN PEH008A S-29221BR0I-J8T1 TC74LCX245FTS1 **TPS850** TC74LCX541FTS1 BD6171KV

PE5478A TC7SH08FUS1 TC74VHCT08AFTS1 UPD4721GSS1 NJM2561F1 AK4351VT TA2050FS1 MB86291APFVS-G-DL BA5835FP TC7SH14FUS1 NJM2885DL1-33

* K4S561632E-TL75 * HY57V561620CLT-H

VDD	1	0	54 VSS	VDD 1	0	54 VSS
DQ0	2		53 DQ15	DQ0 2		53 DQ15
VDDQ	3		52 VSSQ	VDDQ 3		52 VSSQ
DQ1	4		51 DQ14	DQ1 4		51 DQ14
DQ2	5	A0-A11: Address input	50 DQ13	DQ2 5	A0-A11 : Address input	50 DQ13
VSSQ	6	BA0-BA1 : Bank select address DQ0-DQ15 : Data input/output	49 VDDQ	VSSQ 6	BA0-BA1 : Bank select address DQ0-DQ15 : Data input/output	49 VDDQ
DQ3	7	CLK : Clock input CKE : Clock enable	48 DQ12	DQ3 7	CLK : Clock input CKE : Clock enable	48 DQ12
DQ4	8	CS: Chip select	47 DQ11	DQ4 8	CS: Chip select	47 DQ11
VDDQ	9	RAS : Row address strobe CAS : Column address strobe	46 VSSQ	VDDQ 9	RAS : Row address strobe CAS : Column address strobe	46 VSSQ
DQ5	10	WE : Write enable LDOM : Lower DO mask enable	45 DQ10	DQ5 10	WE : Write enable LDOM : Lower DO mask enable	45 DQ10
DQ6	11	UDQM : Upper DQ mask enable	44 DQ9	DQ6 11	UDQM : Upper DQ mask enable	44 DQ9
VSSQ	12	VDD : Power supply VSS : GND	43 VDDQ	VSSQ 12	VDD : Power supply VSS : GND	43 VDDQ
DQ7	13	VDDQ : Data output power supply VSSQ : Data output GND	42 DQ8	DQ7 13	VDDQ : Data output power supply VSSQ : Data output GND	42 DQ8
VDD	14	NC : Not used	41 VSS	VDD 14	NC : Not used	41 VSS
LDQM	15		40 NC	LDQM 15		40 NC
WE	16		39 UDQM	WE 16		39 UDQM
CAS	17		38 CLK	CAS 17		38 CLK
RAS	18		37 CKE	RAS 18		37 CKE
CS	19		36 NC	CS 19		36 NC
BA0	20		35 A11	BA0 20		35 A11
BA1	21		34 A9	BA1 21		34 A9
A10/AP	22		33 A8	A10/AP 22		33 A8
A0	23		32 A7	A0 23		32 A7
A1	24		31 A6	A1 24		31 A6
A2	25		30 A5	A2 25		30 A5
А3	26		29 A4	A3 26		29 A4
VDD	27		28 VSS	VDD 27		28 VSS

IC's marked by * are MOS type. Be careful in handling them because they are very liable to be damaged by electrostatic induction.

AVIC-D1/UC

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* UPD705103GM-180S1

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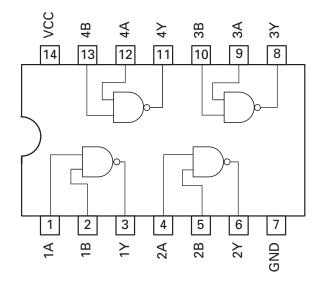
2 GND01 3 CS1 4 CS0 WE 5 RAS 6 UUDGM 7 ULDGM 8 LUDGM 9 119 VDDI4 118 D1 117 GNDO8 110 116 A1-A23: Address Bus NMI: Non-Maskable Interrupt Request VDD07 MRD 115 BCYST: Bus Cycle Start BT16B: Boot Bus Size 16-bit PORT0-PORT4, PORTA0-PORTA7: Port MWR 114 R/W: Bus Read or Write Status LLBEN 113 CAS: Column Address Strobe RAS: Row Address Strobe 9 10 VDD01 CKE: Clock Enable
CLKOUT: Clock Out
CMODE: Clock Mode
CS0-CS7: Chip Select
D0-D31: Data Bus LUBEN 112 READY : Ready RESET : Reset ULBEN 111 RXD: Receive Data UUBEN 110 GND02 SCLK: Serial Clock SDCLKOUT: SDRAM CLKOUT IOWR 109 12 SDCLKOUT TORD 108 13 CKE CAS DCK : Debug Clock SI: Serial Input _____<u>10</u>7 DDI: Debug Data Input
DDO: Debug Data Output
DMAAK0-DMAAK3: DMA Acknowledge
DMARQ0-DMARQ3 DMA Request SO: Serial Output
STOPAK: Stop Acknowledge
TC: Terminal Count 15 A1 READY 106 R/W 105 16 A2 17 A3 ... HLDRG 104 TCLR: Timer Clear DMS : Debug Mode Select TI: Timer Input 18 A4 103 HLDAK DRST: Debug Reset GND_I: Ground GND_O: Ground TO10,TO11 : Timer Output
TRCDATA0-TRCDATA3 : Trace Data GND07 102 19 VDDI1 VDD06 101 20 GNDI1 TXD: Transmit Data CS2 100 VDD02 ULBEN : Upper Lower Byte Enable
ULDQM : Upper Lower DQ Mask Enable GND_PLL : Ground HLDAK : Hold Acknowledge 6ND03 CS3 99 23 A5 CS4 98 HLDRQ : Hold Request UUBEN : Upper Lower Byte Enable IC1 : Internally Connected INTP00-INTP03,INTP10-INTP13 : UUDQM : Upper Upper DQ Mask Enable VDD 1 : Power Supply CS5 97 24 A6 25 A7 CS6 96 Interrupt Request From Peripheral IORD: I/O Read IOWR: I/O Write VDD_O : Power Supply CS7 95 26 A8 VDD_PLL : PLL Power Supply WE : Write Enable 27 A9 TC/STOPAK 94 28 A10 PORTA1/DMAAKO 93 LLBEN: Lower Lower Byte Enable X1,X2 : Crystal Oscillator 29 92 LLDQM : Lower Lower DQ Mask Enable

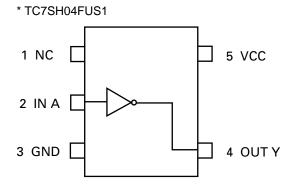
LUBEN : Lower Upper Byte Enable PORTA3/DMAAK1 A11 PORTA5/DMAAK2 91 30 VDD03 31 LUDQM : Lower Upper DQ Mask Enable PORTA7/DMAAK3 GND04 MRD: Memory Read PORTAO/DMARQO 89 32 A12 MWR : Memory Write Strobe 33 PORTA2/DMARQ1 A13 34 PORTB6/INTP02 PORTA4/DMARG2 Δ14 35 PORTB4/INTP01 86 A 15 PORTA6/DMARQ3 36 PORTB2/INTPOO 85 A16 PORTB3/INTP13 37 GNDI3. 84 INTP10/T010 INTP12/T011 PORTB1/TCLR A17 38 83 38 A 18 A 19 VDD04 PORT2/SI PORT1/SO 82 81 40 DCK DMS 000 IQQ 9 Ψ Ŋ

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* TC74LCX08FTS1





AVIC-D1/UC 234

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* PD6336C

Pin Arrangement Chart

ge	er	n	е	n	t	C	h	a	rt												_
64	63	62	61	09	69	28	29	99	22	54	23	25	12	09	67	84	47	97	45	77	43
65	142	141	140	139	138	137	136	135	134	133	132	131	130	129	128	127	126	125	124	123	42
99	143	212	211	210	209	208	207	206	205	204	203	202	201	200	199	198	197	196	195	122	41
67	144	213	274	273	272	271	270	269	268	267	266	265	264	263	262	261	260	259	194	121	40
89	145	214	275															258	193	120	39
69	146	215	276															257	192	119	38
70	147	216	277															256	191	118	37
71	148	217	278															255	190	117	36
72	149	218	279															254	189	116	35
73	150	219	280															253	188	115	34
74	151	220	281															252	187	114	33
75	152	221	282							VI 2/1 0 0	7 7 1							251	186	113	32
9/	153	222	283							È	_							250	185	112	31
77	154	223	284															249	184	111	30
78	155	224	285															248	183	110	29
79	156	225	286															247	182	109	28
80	157	226	287															246	181	108	27
81	158	227	288															245	180	107	26
82	159	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	179	106	25
83	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	105	24
84	82	98	87	88	68	06	91	92	93	94	92	96	97	86	66	100	101	102	103	104	23
1	2	က	4	2	9	7	∞	6	10	11	12	13	14	15	16	17	18	19	20	21	22
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

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VSS	ADC_DATA	ADC_LRCLK	TEST4	EXTAL1	OVSS4	XTAL1	TEST3	DAC_LRCLK	DAC_DATA	PI021	0VSS3	CD_DATA	PI018	PI016	PI014	PI012	PIO10	PI08	P106	PIO4	88/
CD_MCLK ADC_GCNT2	ADC_GCNT0 ADC_GCNT1 ADC_DATA	ADC_BCLK ADC_LRCLK	ADC_MCLK	A6	A8	A10	TEST2	PC_READY DAC_MCLK DAC_LRCLK	PC_RESET DAC_BCLK DAC_DATA	PC_XREG	PC_A0	PI020	PI019	PI017	PI015	PI013	PI011	PI09	PI07	PIO5	cold
CD_MCLK	ADC_GCNT0	A3	A4	A5	A7	A9	A12	PC_READY	PC_RESET	PC_WXT	PC_BVD2	PC_WP	PC_XCD2	PC_XCE1	PC_XCE2	PC_XVS1	PC_XIORD	PC_XIOWR	PC_XWE	PIO2	633/10
D31	CD_BLK	A2	SSA	QQA	ADAV	QQA	A11	SSA	PC_XVS2	QQA	QQA	PC_BVD1	NSS	PC_XCD1	VDD	PC_X0E	VSS	NSS	PC_XPWR PC_XUBUF	PC_XLBUF	1010
DSP_XRS DSP_ATTCNT	CD_LRCLK	D30	SSA															VDD		ATA_DIR	0010
DSP_XRS	TEST1	D29	D28															ATA_XCS0	ATA_XCS1	ATA_DD15 UART1_XDTR	Omes - me - i -
OVDD2	OVSS5	D27	ααΛ															VDD	ATA_DA2		100,00
XCS_SRAMH	PIO_OUT	D26	D25															ATA_DD14	ATA_DD12 ATA_DD13	UART_XRI	GOGY TOWN
DSP_BCLKO XCS_SRAMH	D24	D23	NSS															VSS	ATA_DD12	ATA_DD11	Omore same
DSP_BFSO	DSP_BDO	D22	D21															ATA_DD10	ATA_DD9	ATA_XRESET UART_XDCD ATA_DD11 UART_XRI	100/10
0VSS6	D20	D19	VDD							_								VDD	ATA_DD8	TA_XRESET	710110
JSP_HRDY	D18	D17	VDD							TOP VEIW								VDD	ATA_DD7	ATA_DD6	000
DSP_XHINT DSP_HRDY	PI023	D16	D15							_								ATA_DD5	ATA_DD4	UART1_RXD	CAST ATO A !
DSP_BFSI	D14	D13	NSS															VSS	ATA_DD3	ATA_DD2	0710 0000
DSP_BDI	XCS_DSP	D12	D11															ATA_DD1	ATA_DD0	ATA_XDIOW UART3_RXD	SAT FIGURE SAG SIGNAL SAT SIGNAL
OVDD3	D10	D9	VDD															VDD	ATA_DMARQ	ATA_XDIOW	0000
PI022	OVSS7	D8	D7															ATA_XDIOR	ATA_IORDY	XRESET	CVT OTC 411
PI024	D6	SQ.	QQA															VSS	ATA_XDMACK ATA_IORDY ATA_DMARO	UART4_RXD	CVT . TO
PI025	D4	EQ.	SSA	SSA	XLUBEN	ADD	NC	SSA	NC	VDD	ADD	XCS5	NSS	DREQ2	VDD	INT1	VDD	NSS	ATA_INT	ONSSO	CYT TEGOL
DSP_BCLKI	PI026	D2	D1	XMWR	XLLBEN	XIORD	NC	NC	NC	XBCYST	XCS2	XCS3	DREQ0	DREQ1	INT3	INT2	INT0	ATA_DA0	ATA_DA1	UART7_TXD UART7_RXD UART6_RXD	CAT OFF ALL AND CAN DECAME
PI027	PI028	XCS_FLASH	D0	XMRD	USBPWREN	XIOWR	NC	NC	NC	XREADY	SRAM_CSSEL	P1030	XCS6	XTST	SMCK	XSM	GDC_WT	JART9_TXD UART9_RXD	JART8_TXD UART8_RXD	UART7_RXD	CVT OTO ALL
NSS	PI029	USBXPWREN XCS_FLASH	USBXOVRCUR	UVD1M	UVD1P	UVD2M	UVD2P	USBOVRCUR	USB_CLK	XCS_SRAM	XWR_SRAM SRAM_CSSEL	PI031	IR_RX	TEST0	XTAL0	MST	EXTAL0	UART9_TXD	UART8_TXD	UART7_TXD	00/1

AVIC-D1/UC

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A Plant Diagram Chart

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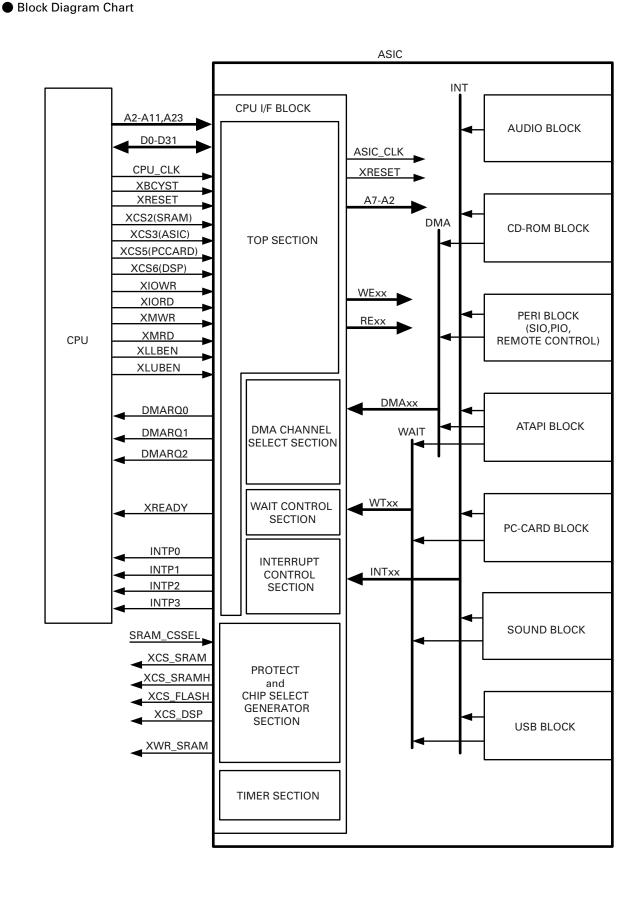
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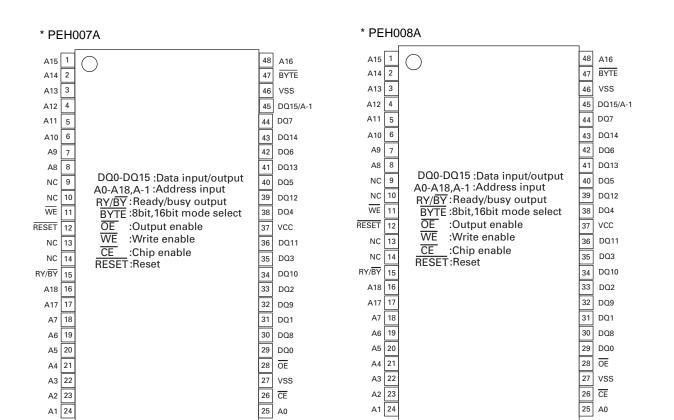
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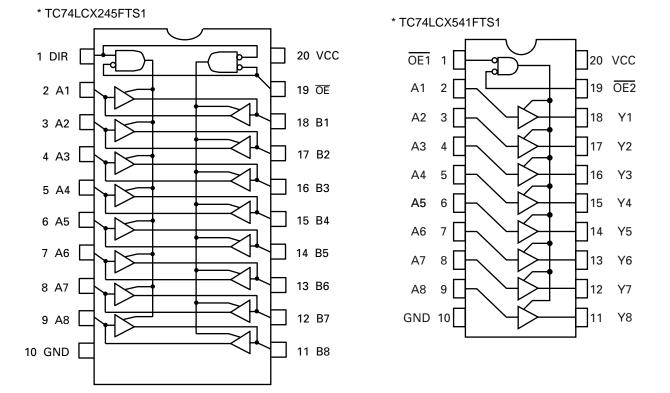
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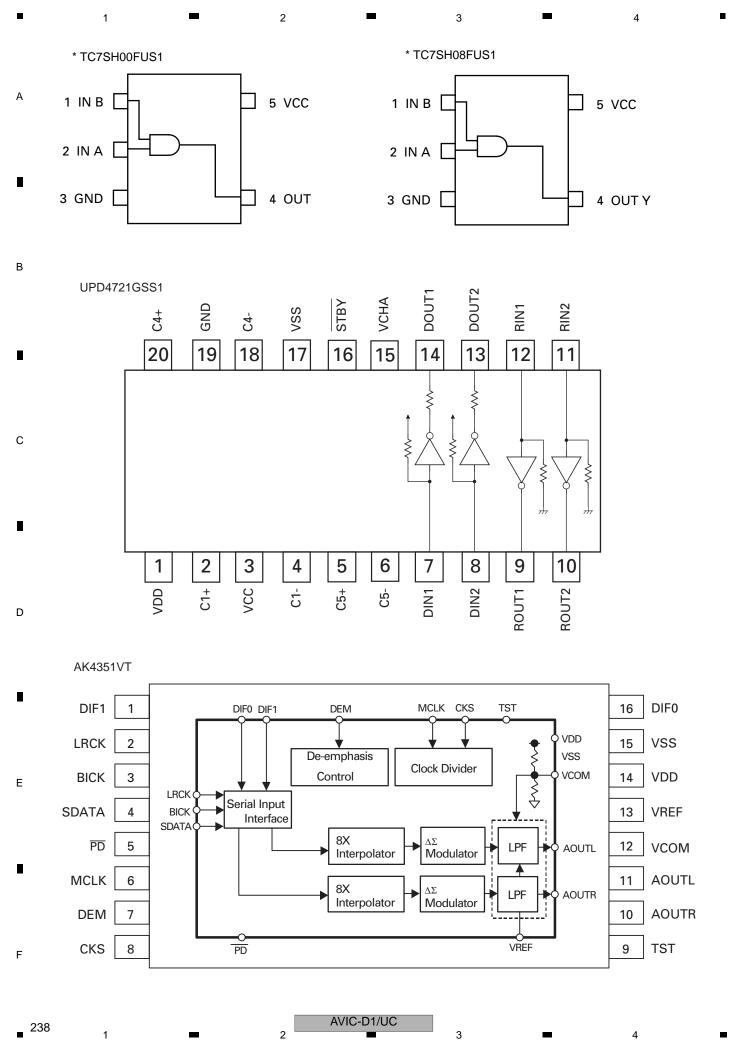
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AVIC-D1/UC 7 8

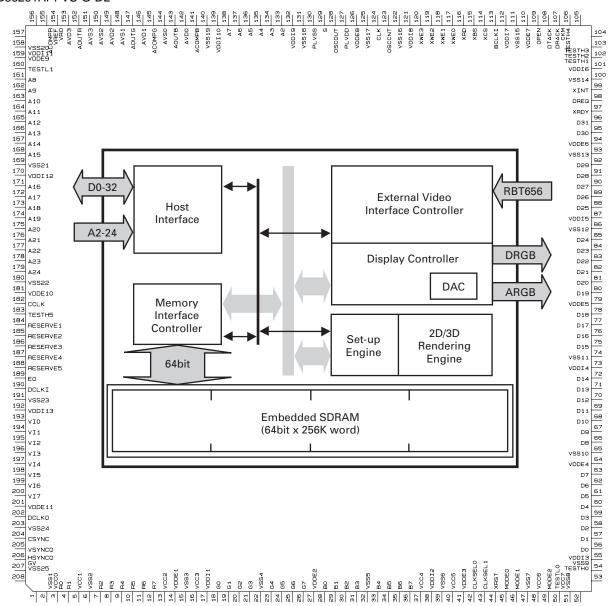
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* MB86291APFVS-G-DL

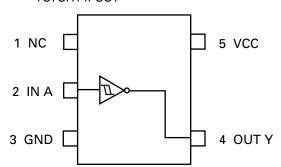
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AVIC-D1/UC

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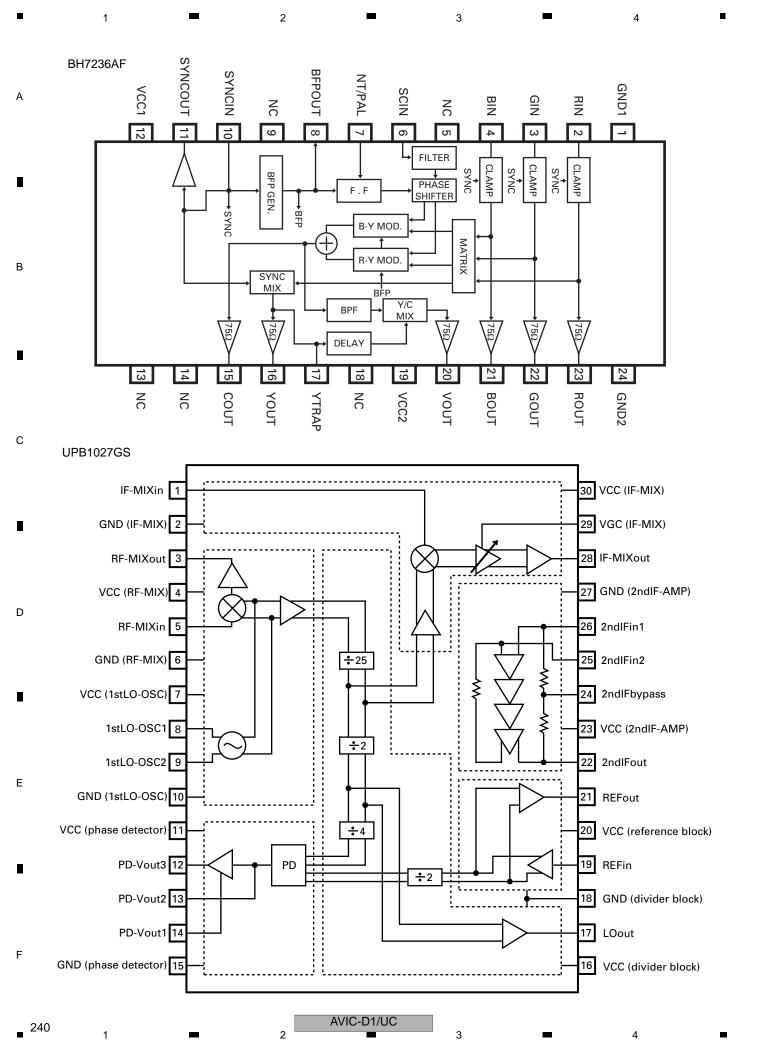
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D' N	D'. N.	1/0		Formation and Occupion
	Pin Name	I/O	Format	Function and Operation
1	VCC0			Power supply (3.3V)
2	VSS0			GND
3	TXD2	I/O		SIO2 Transmission data input / output
4	RXD2	I/O		SIO2 Reception data input / output
5	TXD1	0	C	SIO1 Transmission data output
6	RXD1	I		SIO1 Reception data input
7	TXD0	0	С	SIO0 Transmission data output
8	RXD0	I		SIO0 Reception data input
9	SPEED	1		SP I/F input
10	ADCSB	Ö	С	AD I/F output
11	ADSCK	0	C	AD I/F output
12	ADTXD	Ö	Č	AD I/F output
13	ADRXD	ī		AD I/F input
14	ADSRX	i		AD I/F input
		I/O		AD I/F input / output
16	ADIO1	I/O		
				AD I/F input / output
17	ADIO2	I/O		AD I/F input / output
	VCC1			Power supply (3.3V)
				GND
		0		PWM signal output
21	PLINT	l		PLL I/F input
22		0	С	PLL I/F output
23	PLSCK	0	С	PLL I/F output
24	PLTX	0	С	PLL I/F output
25	PLRX	I		PLL I/F input
26	PLIO0	I/O		PLL I/F input / output
27	PLIO1	I/O		PLL I/F input / output
28		I/O		PLL I/F input / output
29	DDINT	I		Darc I/F input
30	DDCE	Ö	С	Darc I/F output
31	DDSCK	Ö	Č	Darc I/F output
32	DDTX	0	Č	Darc I/F output
33	DDRX	Ī		Darc I/F input
34		1/0		Darc I/F input / output
35		I/O		Darc I/F input / output
36	DDIO1	I/O		Darc I/F input / output
37	TIOA0	1/0		Parallel input / output
38	TIOA1	I/O		Parallel input / output
39	TIOB0	I/O		Parallel input / output
40	TIOB1	I/O		Parallel input / output
41	VCC2			Power supply (3.3V)
42	VSS2			GND
43-53		I/O		Address bus input / output
	VCC3			Power supply (3.3V)
	VSS3			GND
56-64	A8-0	I/O		Address bus input / output
65	VCC4			Power supply (3.3V)
66	VSS4			GND
		I/O		Address bus input / output
83				Power supply (3.3V)
84	VSS5			GND
85	WRHB	I/O		Upper data write strobe input / output
86		I/O		Lower data write strobe input / output
87	RDB	I/O		Read data strobe input / output
		I/O		Chip select aria 1 for external storage input / output
			-	
89	CS0B	I/O	-	Chip select aria 0 for ROM input / output
90	VCC6		L	Power supply (3.3V)

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D'. N.	D' N N	1/0	E	Founding and Open tion
Pin No.	Pin Name	I/O	Format	Function and Operation
91	VSS6			GND
92	TEST2			Test mode
93				CK output enable input
94		0	С	CPU clock output
95	CS5B	0	С	DRAM low address strobe output
96		0	С	DRAM column address strobe output
97	CS1B	0	С	DRAM column address upper byte strobe output
98	RTCVSS1			Power supply (3.3V)
99	SRAMB	- 1		Backup memory select input
100	STANBYB			Stand by signal input
101	RTCVSS0			GND
102		I		Sub crystal oscillator input (RTC)
103	XRTCOUT	0	С	Sub crystal oscillator output (RTC)
104	RTCVCC			Power supply (3.3V)
105		ı		Processor clock select input
106		1		Processor clock select input
107				CRCK signal select input
	CCKDIR	I/O		Carrier clock direct input / inverter amp output
	CCKVCC	-, -		Power supply (3.3V)
	CRCK	ı		Carrier clock input
				GND
112-118		I/O		Parallel input / output
119		-, -		Connect to VCC
120		ı		System reset input
		i		Test reset input
122		i		Test mode input
123		i		Test mode input
124		i		GPS reference clock select input
125		i		Reference clock input
126				Power supply (3.3V)
127	VSS7			GND
128		1		Sub crystal oscillator output input (AUX)
	XAUXOUT	Ö	С	Sub crystal oscillator output (AUX)
130-133		ī		Parallel input
134-137	PIO4-7	I/O		Parallel input / output
138		I/O		SIO3 Transmission data input / output
	RXD3	I/O		SIO3 Reception data input / output
140		0	С	Watch dog timer output
140	IFDIR	1/0		IF direct input / IF inverter amp output
141		1/0		Power supply (3.3V)
		1		
143	IF CND	<u> </u>		IF input
144	IFGND	I		IF amp GND input

* PD3390A

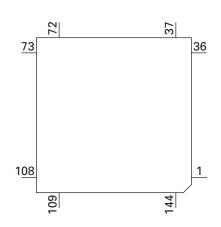
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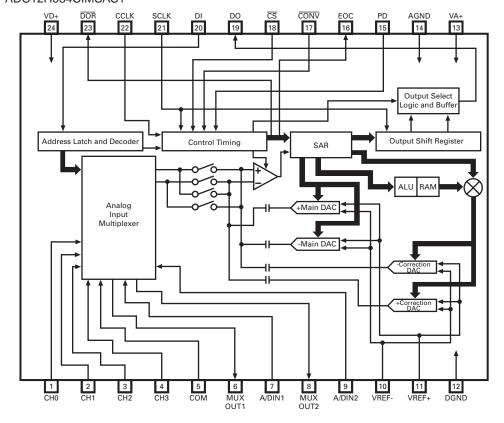
Format	Meaning
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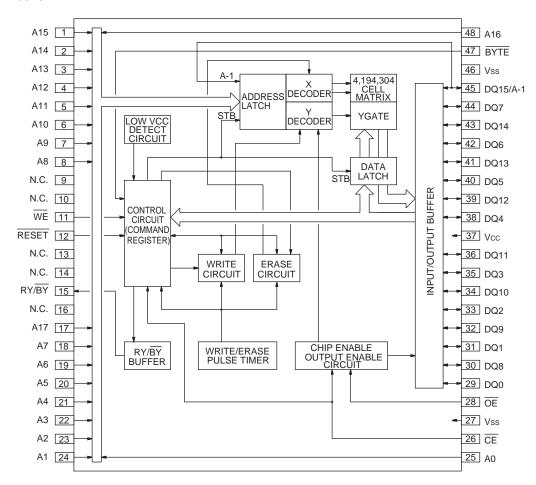
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●Pin Functions(PE5479A)

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Pin No.	Pin Name	I/O	Function and Operation
1	PNLADX	ı, C	X directions analog input
	LSEN	i	Lens sense input
3	PNLADY	i	Y directions analog input
4	AVSS	-	A/D converter GND
5	DIMMER	0	Dimmer anarog output
6	INVBST_DA	Ō	Back light boost signal output (low temperature)
7	AVREF1		D/A converter reference voltage
8	RXD	ı	Data input from system microcomputer (UART)
9	TXD	Ö	Data output to system microcomputer (UART)
10	MFLPW	0	Back light control output
11	LKYDT	Ī	Data input from LCD micro computer (UART)
	LDPDT	Ö	Data output to LCD micro computer (UART)
	MVIPW	Ö	Picture power supply control output
14	OSDCS	0	OSD chip select output
15	NC		Not used
16	TSI	ı	Test program data input
17	TSO	0	Test program data output
	TSCK	ī	Test program clock input
19	OVICHK	-i	Back light power supply overcurrent detect input
20	EPRRST	<u> </u>	EEPROM reset input
21	EPRTEST	<u> </u>	EEPROM data setup mode input
	STEST	I I	Monitor operation mode input
23	STEST2	l I	Touch panel test mode input
23	PNLXV	0	Hi output is carried out when X directions is detected
			Hi output is carried out when A directions is detected
25	PNLYV	0	Hi output is carried out when Y directions is detected
26	NC	1/0	Not used
27	SDA	I/O	IC data input / output
28	SCL	0	IC clock output
	PIPRES	0	IC reset output
30	LSWVDD	0	LCD micro computer power supply control output
31	PNLVD	0	Touch panel power supply control output
32	NC		Not used
33	VSS1		GND
34-37	NC		Not used
	ROMDATA		Not used
39	ROMCLK		Not used
40	POMCS		Not used
41,42	NC		Not used
43	INVBST		Not used
44	INVPUL	0	Inverter pulse output
45	BEEP		Not used
46	EPRCS	0	EEPROM chip select output
47	EPRSK	0	EEPROM serial clock output
48	EPRDO	0	EEPROM serial data output
49	EPRDI	- 1	EEPROM serial data input
	EPRPROT	0	EEPROM memory protect output
	TESTIN	I	Chip test input
	NC		Not used
	LDIMMER		Not used
	LBKL	0	LCD micro computer back light power supply control output
55,56	NC		Not used
57	LCDTYPE1	I	LCD panel type detect input1
58	NC		Not used
	LCDTYPE2	I	LCD panel type detect input2
59	LCDTYPE2 RESET	l I	Reset input
59		 	Reset input
59 60 61	RESET REMIN	 	Reset input Remote control data input
59 60 61 62	RESET REMIN VDDSENS	 	Reset input Remote control data input Power supply sense input
59 60 61 62 63	RESET REMIN VDDSENS ROT0	 	Reset input Remote control data input Power supply sense input Rotary encoder input0
59 60 61 62 63 64	RESET REMIN VDDSENS ROT0 ROT1	 	Reset input Remote control data input Power supply sense input Rotary encoder input0 Rotary encoder input1
59 60 61 62 63 64 65	RESET REMIN VDDSENS ROT0 ROT1 LCDLR		Reset input Remote control data input Power supply sense input Rotary encoder input0 Rotary encoder input1 Not used
59 60 61 62 63 64 65 66	RESET REMIN VDDSENS ROT0 ROT1 LCDLR TVIND	 	Reset input Remote control data input Power supply sense input Rotary encoder input0 Rotary encoder input1 Not used Not used
59 60 61 62 63 64 65 66	RESET REMIN VDDSENS ROT0 ROT1 LCDLR TVIND VSS0		Reset input Remote control data input Power supply sense input Rotary encoder input0 Rotary encoder input1 Not used Not used GND
59 60 61 62 63 64 65 66 67 68	RESET REMIN VDDSENS ROT0 ROT1 LCDLR TVIND VSS0 VDD1		Reset input Remote control data input Power supply sense input Rotary encoder input0 Rotary encoder input1 Not used Not used GND Power supply
59 60 61 62 63 64 65 66 67 68	RESET REMIN VDDSENS ROT0 ROT1 LCDLR TVIND VSS0 VDD1 X2		Reset input Remote control data input Power supply sense input Rotary encoder input0 Rotary encoder input1 Not used Not used GND Power supply Crystal oscillator connection pin
59 60 61 62 63 64 65 66 67 68	RESET REMIN VDDSENS ROT0 ROT1 LCDLR TVIND VSS0 VDD1		Reset input Remote control data input Power supply sense input Rotary encoder input0 Rotary encoder input1 Not used Not used GND Power supply

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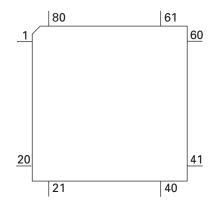
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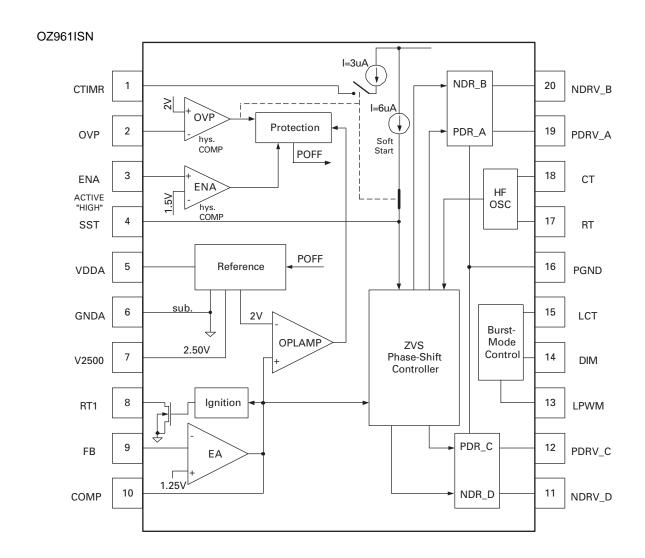
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Pin No.	Pin Name	I/O	Function and Operation
73	XT2		GND
74	VDD0		Power supply
75	AVDD		A/D converter power supply
76	KEY0	I	Analog key data input 0
77	KEY1		Analog key data input 1
78	KEY2	I	Analog key data input 2
79	KEY3		Analog key data input 3
80	TEMPSEN	I	Temperature sense input (back light boost)

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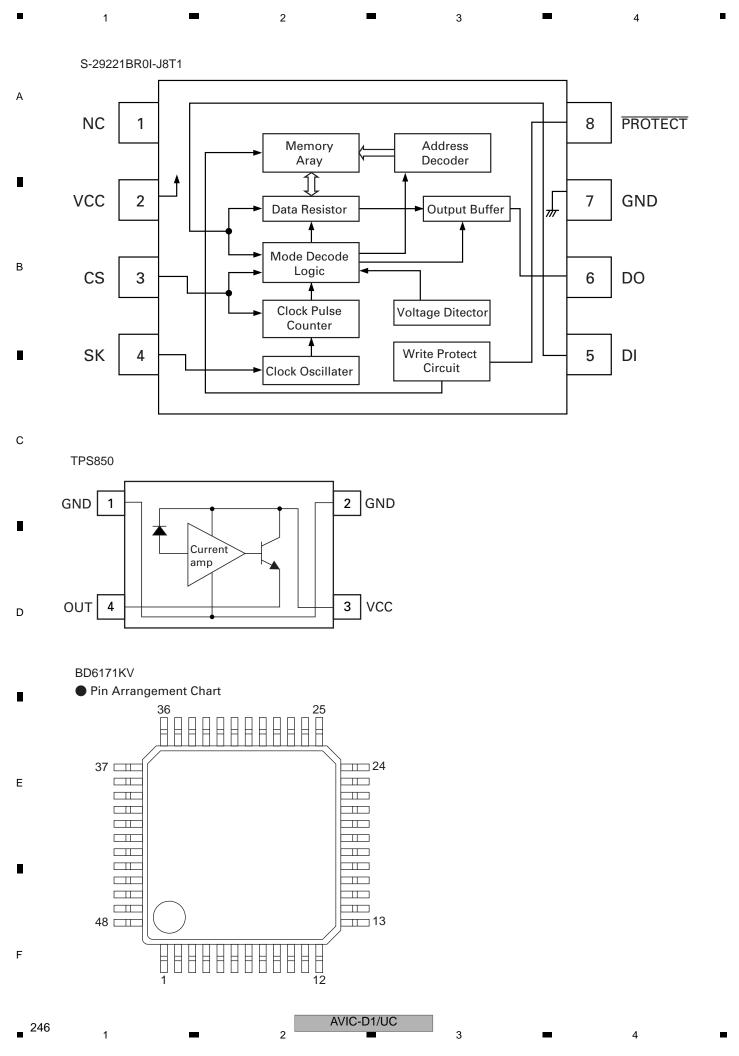
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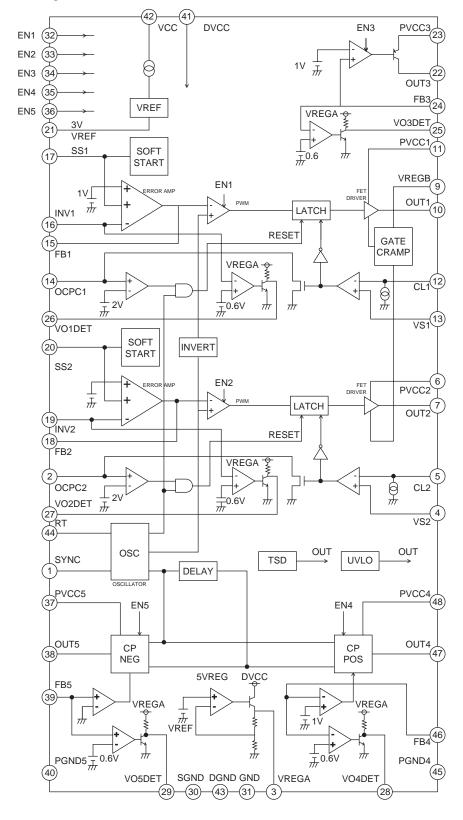
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^{*} PE5479A



Block Diagram Chart



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● Pin Functions (PE5478A)

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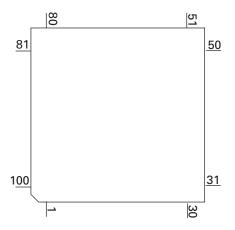
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	Din Name	1/0	Function and Operation
Pin No.	Pin Name	I/O	Function and Operation
1	STOC	0	Navigation microcomputer data output (UART)
2	FCONT	0	AM noise measures output
3	CSENSOUT	0	Flap close sense output
4,5	NC		Not used
6	MTOS	I	Monitor microcomputer data input (UART)
7	STOM	0	Monitor microcomputer data output (UART)
8	TSCK		Not used
9	EVDD		Power supply
10	EVSS		GND
11	SWACPW	0	Monitor microcomputer power supply output
12	SYSPW	0	
		_	System power supply output
13	BRST	0	P-BUS : Reset output
14	BSRQ		P-BUS : Communication request input
15	BSI	I	P-BUS : Data input
16	BSO	0	P-BUS : Data output
17	BSCK	I/O	P-BUS : Clock input/output
18,19	VSELIN1,2	ı	AV-BUS: VSEL input 1,2
20	AVONIN		AV-BUS : AVON input
21	VPP	<u> </u>	VSS
22	VCK	0	E. VOL : Clock output
23	VDT	0	E. VOL : Clock output
	VST		
24		0	E. VOL : Strobe pulse output
25	MUTEVOL	0	E. VOL : Mute output
26	RX	I	IP-BUS : Data input
27	TX	0	IP-BUS : Data output
28	IPPW	0	IP-BUS : Driver power supply control output
29	ASENBO	0	IP-BUS : ACC sense output
30	BRXEN	0	P-BUS: Possible to receive output
31	ROMDATA		Not used
32	ROMCLK		Not used
33	ROMCS	†	Not used
34	RESET		System reset input
35	XT1	- '	Not used
36	XT2		Not used
			Not used
37	REGC		
38	X2		Crystal oscillator connection pin
39	X1		Crystal oscillator connection pin
40	VSS		GND
41	VDD		Power supply
42	PCL		Not used
43,44	PULSE0,1	ı	Pulse detect input 0,1
45,46	MOT0,1	0	Flap motor driver output 0,1
47	MOTPW	0	Flap motor power supply output
48	OPENSW	i	Flap angle OPEN position sense input
49	HOMESW	 	Flap angle CLOSE position sense input
50	EJECTSW	'	Flap angle CD EJECT position sense input
51	MUTENS	0	Mute output at the time of MIX
52	NOSELL	0	Navigation voice Lch MIX control output
53	NOSELR	0	Navigation voice Rch MIX control output
54	DRAMPW	0	Navigation control DRAMPW output
55	CCON	0	Navigation control CCON output
56	IRQPW	0	Navigation control IRQPW output
		_	Navigation control RSTOUT output
57	SYSRST	0	Navigation Control No 1001 Output
	SYSRST BVDD	0	Power supply
57 58	BVDD	0	Power supply
57 58 59	BVDD BVSS		Power supply GND
57 58 59 60	BVDD BVSS ANTPW	0	Power supply GND Auto antenna control output
57 58 59 60 61	BVDD BVSS ANTPW ILMPW	0	Power supply GND Auto antenna control output Illumination power supply switch output
57 58 59 60 61 62	BVDD BVSS ANTPW ILMPW FLAPILM	0 0	Power supply GND Auto antenna control output Illumination power supply switch output Panel illumination switch output
57 58 59 60 61	BVDD BVSS ANTPW ILMPW	0	Power supply GND Auto antenna control output Illumination power supply switch output

Pin No.	Pin Name	I/O	Function and Operation
65	AMPSTBY	0	Amp stand-by output
66	FANUP	0	Fan motor control output
67	MUTEALL	0	Mute output
68	MUTEAMP	0	Amp mute output
69,70	VFSEL0,1	0	Front monitor source select output 0,1
71	FVMUTE	0	Front monitor mute output
72	VRSEL	0	Rear monitor source select output
73	REARON	0	Rear monitor ON output
74	AVDD		A/D converter power supply
75	AVSS		A/D converter GND
76	AVREF		A/D converter reference voltage
77	TUNSL	I	Tuner signal level input
78	NTEMPIN	I	Navigation temperature sense input
79	WREMIN	1	Wired remote control analog value input
80	WCONT	1	Wired remote control SEL input
81	RST3	I	Navigation control reset input
82	XCCSTBY	I	Navigation stand-by OK input
83	CPUWDT	I	Navigation watch dog timer input
84	TELIN	I	Telephone mute input
85	PBSENS	I	Parking brake sense input
86	REVSENS	I	Reverse gear sense input
87	TESTIN	I	Test mode input
88	TIMEOUT	I	Timeout input
89	NMI		Pull down
90	BSENS	I	Backup sense input
91	ASENS	I	ACC sense input
92	ILMSENS	I	Illumination sense input
93	DVDEJECT	I	DVD EJECT key input
94	CDEJECT	I	CD EJECT key input
95	TUNCE1	0	Tuner : PLL chip enable output
96	TUNCE2	0	Tuner: EEPROM chip enable output
97	TUNPDI	I	Tuner : Data input (SIO)
98	TUNPDO	0	Tuner : Data output (SIO)
99	TUNCK	0	Tuner : Data clock output (SIO)
100	CTOS	I	Navigation microcomputer data input (UART)

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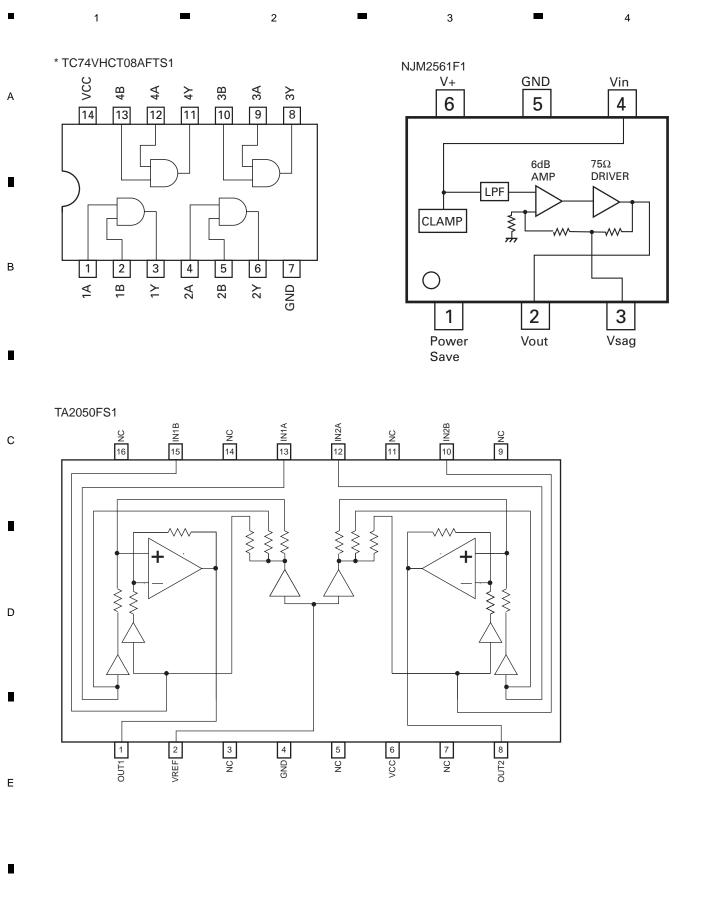
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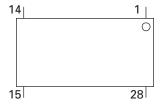
Pin Functions(BA5835FP)

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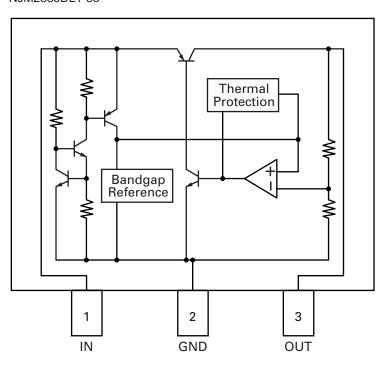
Pin No.	Pin Name	Function and Operation
1	VR	Input pin for reference voltage
2	OPIN2(+)	Input pin for non-inverting input for CH2 preamplifier
3	OPIN2(-)	Input pin for inverting input for CH2 preamplifier
4	OPOUT2	Output pin for CH2 preamplifier
5	OPIN1(+)	Input pin for non-inverting input for CH1 preamplifier
6	OPIN1(-)	Input pin for inverting input from CH1 preamplifier
7	OPOUT1	Output pin for CH1 preamplifier
8	GND	Ground pin
9	MUTE	Mute control pin
10	POWVCC1	Power supply pin for CH1, CH2, and CH3 at "Power" stage
11	VO1(-)	Driver CH1 - Negative output
12	VO1(+)	Driver CH2 - Positive output
13	VO2(-)	Driver CH2 - Negative output
14	VO2(+)	Driver CH2 - Positive output
15	VO3(+)	Driver CH2 - Positive output
16	VO3(-)	Driver CH2 - Negative output
17	VO4(+)	Driver CH4 - Positive output
18	VO4(-)	Driver CH4 - Negative output
19	POWVCC2	Power supply pin for CH4 at "Power" stage
20	GND	Ground pin
21	CNT	Control pin
22	LDIN	Loading input
23	OPOUTSL	Output pin for preamplifier for thread
24	OPINLSL	Input pin for preamplifier for thread
25	OPOUT3	CH3 preamplifier output pin
26	OPIN3(-)	Input pin for inverting input for CH3 preamplifier
27	OPIN3(+)	Input pin for non-inverting input for CH3 preamplifier
28	PREVCC	PreVcc

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BA5835FP



NJM2885DL1-33



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Pin Functions(PE5454B)
Pin No. Pin Name I/O

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Pin No.	Pin Name	I/O	Format	Function and Operation
1	AVREF			A power supply Positive power supply(5V)
2	AVSS			A power supply GND
3	RFOK	0	С	Output of state of RFOK
4	NC			Not used
5	EVDD			E power supply Positive power supply
6, 7	NC			Not used
8	IC/FLMD0			IC : VSS direct connection/FLMOD0 : Pull-down
9	VDD			Positive power supply(5V)
10	REGC			Connected to the capacity stabilizing output of the regulator
-	VSS			GND
11				Oscillator connection for mainclock
12	X1	ı		
13	X2			Oscillator connection for mainclock
14	RESET	<u> </u>		System reset input
15	XT1	ı		Connected to the oscillator for subclock
				(connected to VSS via the resistor)
16	XT2			Connected to the oscillator for subclock(Open)
17	NC			Connected to EVDD or EVSS via the resistor
18	NC			Not used
19	XINT	I	С	CD LSI interruption signal input
20	NC			Connected to VSS via the resistor
21	BRST	I		P-Bus reset input
22	BSI	Ī		P-Bus serial data input
23	BSO	0	С	P-Bus serial data output
24	BSCK	I/O	/C	P-Bus serial clock input/output
25	FTXD	0	С	For flash rewriting output(transmitted signal)
26	FRXD	I		For flash rewriting input(received signal)
27	BRXEN	I/O	/C	It is possible to receive P-Bus input/output
28	BSRQ	I/O	/C	P-Bus service request demand input/output
29	NC	., 0	, 0	Not used
30	DSCSNS	ı		Disc state sense input
31	8EJ(S905)	i		Input of detection of 8 cm disc ejection
32	12EJ(S904)	i		Input of detection of 12 cm disc ejection
33	EVSS	•		E power supply GND
34	EVDD			E power supply Positive power supply
35, 36	SRAMLEVELO, 1	0	С	SRAM level meter output
37	EMPH	0	C	Emphasis information output
38	EMPH	0	C	Emphasis information output Emphasis information output
39-42	NC		C	Not used
	ADENA		С	
43		0	C	A/D reference voltage supply control output
44	LRCKOK	0	_	(DOUT mute output)
45	SRAMLEVEL2	0	С	SRAM level meter output
46	CD3VON	0	С	CD +3.3V power supply control output
47	CONT	0	С	Servo driver power supply control output
48	XRST	0	С	CD LSI reset control output
49	VDCONT	0	C	VD power supply control output
50	ROMDATA	I/O	/C	E2PROM data input/output
51	ROMCS	0	С	E2PROM chip selection output
52	ROMCK	0	С	E2PROM clock output
53	LOEJ	0	С	The direction change output of LOAD/EJECT
54	CLCONT	0	С	Driver input change output
55	CDMUTE	0	С	CD mute control output
56-58	NC			Not used
59	XCS	0	С	CD LSI chip selection output
60	NC			Not used
61	XWAIT	ı		CD LSI write control signal input
62	CLKOUT	0	С	Internal system clock output(Open)
63	LOCK	ı		Spindle lock input
64	NC			Not used
65	XWRITE	0		CD LSI write control signal output
66	NC			Not used
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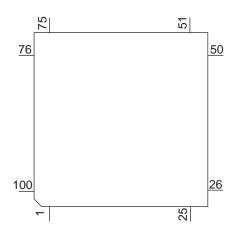
Pin No.	Pin Name	I/O	Format	Function and Operation
67	XREAD	0	Tomat	CD LSI read control signal output
68	XASTB	0		CD LSI address strobe output
69	BVSS			B power supply GND
70	BVDD			B power supply Positive power supply
		1/0	/0	1 113
71-83	AD0-12	I/O	/C	Address/data Bus 0-12
84-86	NC			Not used
87	FMODE	I		For flash rewriting Connected to VSS via the resistor
88	FLRQ	0	С	For flash rewriting
89-93	NC			Not used
94	CSENS	I		Flap closing sense input
95	TYPE_A/D	1		CD-DA analog/digital output change setup
96	TESTIN	I		Chip check test program starting input
97	HOME	I		Home SW sense input
98	TEMP	I		Temperature information sense input
99	VDSENS	I		VD power supply short sense input
100	NC			Not used

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Format	Meaning
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● Pin Functions(UPD63763GJ)

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	Din Nama		Function and Operation
Pin No.	Pin Name	I/O	Function and Operation
1	D.VDD		Power supply for digital circuits
2	D1.GND		GND for 1.6V digital circuits
3	RESET	- ! -	Input of reset
4-8	AB12-8	I	Address bus 12-8 from the microcomputer
9-16	AD7-0	I/O	Address/data bus 7-0 to the microcomputer
17	CS		Chip selection
18	ASTB		Address strobe
19	READ	l	Control signals(read)
20	WRITE	l	Control signals(write)
21	WAIT	0	Control signals(wait)
22	INTQ	0	Interruption signals to the external microcomputer
23, 24	IFMODE0, 1	ı	Switching the microcomputer I/F 0, 1
25	D1.VDD		Power supply for 1.6V digital circuits
26	DA.VDD		Power supply for DAC
27	ROUT	0	Output of audio for the right channel
28	DA.GND		GND for DAC
29	REGC		Connected to the capacitor for band gap
30	DA.GND		GND for DAC
31	LOUT	0	Output of audio for the left channel
32	DA.VDD		Power supply for DAC
33	X.VDD		Power supply for the crystal oscillator
34	XTAL	ı	Connected to the crystal oscillator(16.9344MHz)
35	XTAL	0	Connected to the crystal oscillator(16.9344MHz)
36	X.GND		Ground for the crystal oscillator
37	VDDREG15		Control of 1.6V regulator
38	PWMSW0	1	Setup 0 for PWM output(SD, MD)
39-41	TEST3-1	i	Connected to GND
42	PWMSW1	i	Setup 1 for PWM output(FD, TD)
43	TESTEN	i	Connected to GND
44	D1.GND	<u>'</u>	GND for 1.6V digital circuits
45	DIN		Input of audio data
46	DOUT	0	Output of audio data
47	SCKIN	Ť	Clock input for audio data
48	SCKO	0	Clock output for audio data
	LRCKIN	Ť	Input of LRCK for audio data
49 50		0	Output LRCK for audio data
	LRCK		
51	XTALEN	I	Permission to oscillate 16.9344MHz
52	D1.VDD		Power supply for 1.6V digital circuits
53	RFCK/HOLD	0	Output of RFCK/HOLD signal
54	WFCK/MIRR	0	Output of WFCK/MIRR signal
55	PLCK/RFOK	0	Output of PLCK/Output of RFOK
56	LOCK/RFOK	0	Output of LRCK/Output of RFOK
57	C1D1/C8M	0	Information on error correction/C8M : 8MHz
58	C1D2/C16M	0	Information on error correction/C16M : 16MHz
59	C2D1/RMUTE	0	Information on error correction/Mute for Rch
60	C2D2/LMUTE	0	Information on error correction/Mute for Lch
61	C2D3/SHOCK	0	Information on error correction/Detection of vibration
62	D1.GND		GND for 1.6V digital circuits
63	C33M	0	Output of 33.8688MHz(CLK for SDRAM)
64	(RCS)	0	DRAM CS
65	RA11	0	Output of DRAM address 11
66	(CKE)	0	Output of DRAM CKE
67	RAS	0	Output of DRAM RAS
68	CAS0(LDQM)	0	Output of DRAM lower CAS(LDQM)
69	CAS1(UDQM)	0	Output of DRAM upper CAS(UDQM)
70	WE	0	Output of DRAM WE
71	OE(CAS)	Ö	Output of DRAM OE(CAS)
72	D.GND	<u> </u>	Ground for digital circuits
73-88	RDB0-15	I/O	Input/output of DRAM data0-15
89-99	RA0-10	0	Output of DRAM address0-10
55 55	10.10		Calpar C. Divini additions 10

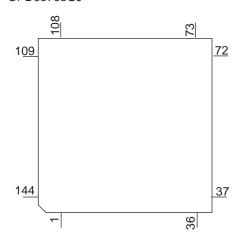
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Pin No.	Pin Name	I/O	Function and Operation
100	D.VDD	1/0	Power supply for digital circuits
100	FD+	0	Output of focus drive PWM +
101	FD-	0	Output of focus drive PWM -
102	TD+		
	TD-	0	Output of tracking drive PWM +
104	SD+	0	Output of tracking drive PWM -
105		0	Output of thread drive PWM +
106	SD-	0	Output of thread drive PWM -
107	MD+	0	Output of spindle drive PWM +
108	MD-	0	Output of spindle drive PWM -
109	REFOUTSV	0	REFOUT for servo
110	AD.VDD		Power supply for ADC
111	EFM	0	Output of EFM signals
112	ASY	I	Input of asymmetry
113	ATEST	0	Analog tests
114	RFI	I	Input of RF
115	AD.GND		Ground for the analog system
116	AGCO	0	Output of RF
117	C3T	0	Connection to the capacitor for detecting 3T
118	AGCI	I	Input of AGC
119	RFO	0	Output of RF(AGC)
120, 121	EQ2, 1	I	Equalizer 2, 1
122	RF2-		Reversal input of RF2
123	RF-	I	Reversal input of RF
124	A.GND		Ground for the analog system
125	Α	I	Input of A
126	С	1	Input of C
127	В	I	Input of B
128	D	1	Input of D
129	F	I	Input of F
130	Е	1	Input of E
131	VREFIN	1	Input of reference voltage
132	A.VDD		Power supply for the analog system
133	REFOUT	0	Output of reference voltage
134	REFC	1	Connected to the capacitor for output of REFOUT
135	FE-	I	Reversal input of FE
136	FEO	0	Output of FE
137	ADIN	I	Input of FE, TE A/D converter
138	TE-	i	Reversal input of TE
139	TEO	0	Output of TE
140	TE2	0	TE2
141	TEC	i	TEC
142	LD	Ö	Output of LD
143	PD	Ī	Input of PD
144	D.GND	+ ' +	Ground for digital circuits
177	5.0.15		Crossing for digital oriodito

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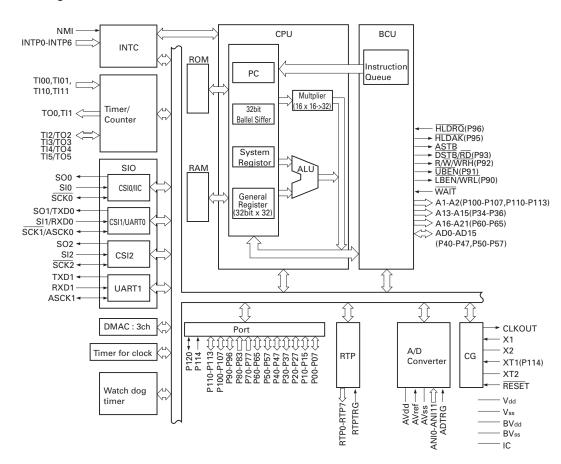
Pin Arrangement Chart

2

76 50 77 78 79 AD3 AD2 AD1 49 48 P75 ADO 47 P76 P96 во 46 P77 P95 81 45 P80 ASTB 82 /RD P81 43 /WRH P82 84 42 /UBEN P83 85 41 NMI /WBL 86 40 INTPO /WAIT 87 39 INTP1 CLKOUT 88 38 INTP2 VSS-37 89 37 INTP3 X1 90 36 P05 X2 91 35 92 34 P07 XT2 93 33 SIO P114/XT1 94 32 /RESET soo 95 31 scko Δ4 96 30 HXD0 ΑЗ 97 29 A2 A1 A12 TXDO 98 IC/VPP 28 P15 99 27 SORS SOKE PE3 PE4 PE5 VOD-E VSS-7. P33 A13 T05 РЭР ۸14 A6 A7 A10 A10 A11 РЭ1

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Block Diagram Chart



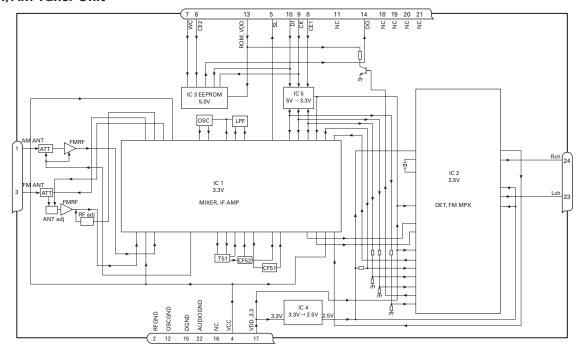
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● FM/AM Tuner Unit

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No.	Symbol	I/O	Explain	
1	AMANT	ı	AM antenna input	AM antenna input high impedance AMANT pin is connected with
				an all antenna by way of 4.7μH. (LAU type inductor) A series circuit
				including an inductor and a resistor is connected with RF ground for
				the countermeasure against the hum of power transmission line.
2	RFGND		RF ground	Ground of antenna block
3	FMANT	-	FM antenna input	Input of FM antenna 75 Ω Surge absorber(DSP-201M-S00B) is necessary.
4	VCC		power supply	The power supply for analog block. D.C $8.4V \pm 0.3V$
5	SL	0	signal level	Output of FM/AM signals level
6	CE2	-	chip enable-2	Chip enable for EEPROM "Low" active
7	WC	ı	write control	You can write EEPROM, when EEPROM write control is "Low".
				Ordinary non connection
8	CE1	-	chip enable-1	Chip enable for AF•RF "High" active
9	CK	Ι	clock	Clock
10	DI	-	data in	Data input
11	NC		non connection	Not used
12	OSCGND		osc ground	Ground of oscillator block
13	ROM_VDD		power supply	Power supply for EEPROM pin 13 is connected with a power supply of
				micro computer.
14	DO	0	data out	Data output
15	DGND		digital ground	Ground of digital block
16	NC		non connection	Not used
17	VDD_3.3		power supply	The power supply for digital block. $3.3V \pm 0.2V$
18	NC		non connection	Not used
19	NC		non connection	Not used
20	NC		non connection	Not used
21	NC		non connection	Not used
22	AUDIOGND		audio ground	Ground of audio block
23	L ch	0	L channel output	FM stereo "L-ch" signal output or AM audio output
24	R ch	0	R channel output	FM stereo "R-ch" signal output or AM audio output

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7.3 EXPLANATION

7.3.1 MECHANISM DESCRIPTIONS

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■ FLAP Operation Specification

1. Outline

Slide open method is adopted, and 4 positions of closed, angle adjustment, half open and full open are considered the basic positions.

(1) Closed

This status is always taken once at power supply ON since flap is completely closed and it is the reference point for flap operation startup.



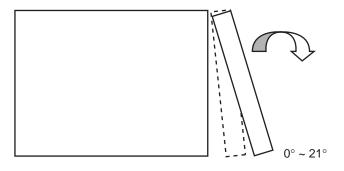
(2) Angle Adjustment

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Position for visibility adjustment.

The angle can be adjusted in 5 stages from the closed position to the maximum angle (approximately 20°) within the adjustable range by the angle key.

The angle has toggle operation, and it executes close operation as follows when it reaches the maximum angle.

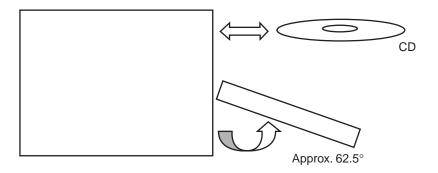


(3) Half Open

Position for DISC replacement on upper stage (CD).

It slides down to angle 12 when OPEN/CLOSE key is pressed quickly at the closed or angle adjustment position. CD insertion/EJECT operation is possible from this position.

At the half open position, LAST position is restored when OPEN/CLOSE key is pressed quickly.



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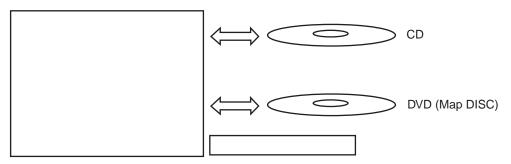
(4) Full Open

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Position for DISC replacement on lower stage (DVD).

This position is set when OPEN/CLOSE key is pressed for more than 2 second at all positions except full open. Map DISC (DVD) can only be inserted/ejected at this position.

At the full open position, the closed position is restored when OPEN/CLOSE key is pressed for more than 2 second, and LAST position is restored when it is pressed quickly.

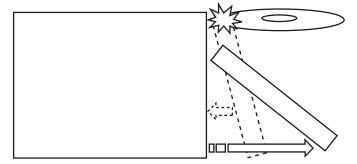


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(5) Error Angle

Besides the above 4 positions that can be operated by the user, this system has the error angle (approx. 45°) as an escape from danger in case of stopping due to an obstruction.

If operation becomes impossible in the angle of 45° or smaller, it opens to this position so that the obstruction (assuming a finger getting caught) can be released completely.



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2. FLAP Operation Specification

(1) Reset Start

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• No operation at full open position. It moves to the closed position at positions other than full open.

(2) ACC ON

- No operation at full open or closed position.
- At ANGLE/half open position, it closes once and then returns to the LAST position.

(3) ACC OFF

- No operation at closed position.
- It closes in 3 seconds when it is at positions other than closed.

However, it shifts to standby status when DISC is at half position.

• If it is in FLAP operation, it closes after completing the current operation.

(4) ACC OFF/ON

- If ACC ON is detected within 3 seconds after ACC OFF, the current condition is continued.
- DISC is at half position, it is closed after loading.
- * "ACC detection" here includes chatter period.

That is, "ACC detection within 3 seconds" means 2.5 seconds + chatter period 0.5 seconds, and the actual ACC OFF/ON interval is "within 2.5 seconds."

(5) DISC Insertion

• When DISC is inserted for either CD or DVD, it restores to the LAST position.

C (6) ANGLE Key

- Angle is adjusted in 5 steps from FULL CLOSE (0°) to the maximum angle (approx. 20°) (1STEP slides in horizontal direction by approx. 6mm).
- It is closed when the system is at the maximum angle.
- Though continuous operation is executed by pressing the key for more than 1 second, it stops when the maximum angle is reached.
- If the opening exceeds the maximum angle, ANGLE key operation becomes disabled.

(7) Pressing OPEN key quickly

- If the system is at FULL CLOSE/ANGLE position, it opens to the half open position (CD insertion opening position) in 1 action.
- If it is at half open position, it restores the LAST position.
- If it is at half open position and DISC at half position, it restores the LAST position after reloading.
- CD EJECT key becomes enabled at the opening of half open position or later by this operation.

(8) OPEN Key Pressed for 2 Second or Longer

- If FLAP angle is at positions other than full open, it moves to full open position.
- DVD EJECT key becomes enabled only at the full open position by this operation.

(9) Obstructions

- a. During CLOSE operation
- It opens to 45° if the angle at which operation was disabled was less than 45°.
- It shifts to the open direction by 1 angle if the angle at which operation was disabled was 45° or larger.
- b. During OPEN operation
- It shifts to the close direction by 1 angle from the angle at which operation was disabled.

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3. Correlation of slide position and angle

	Pulse A	Pulse B	CD EJECT OKSENS	OPEN SENS	CLOSE SENS	POSITION	
C	0 0	0 1	1 1	1	0	0	ANGLE 0 (FULL CLOSE)
0 S	1 1 0	1 0 0	1 1 1	1 1 1	0 – 1 1	1	ANGLE 1
E ↑	0 1	1 1	1 1	1 1	1		
	1 0 0	0 0 1	1 1 1	1 1 1	1 1 1	2	ANGLE 2
	1 1	1 0	1	1	1	2	ANCLE 2
	0 0 1	0 1 1	1 1 1	1 1 1	1 1	3	ANGLE 3
	1 0 0	0 0 1	1 1 1	1 1 1	1 1	4	ANGLE 4
	1 1	1 0	1 1	1 1	1	_	
	0 0 1	0 1 1	1 1 1	1 1 1	1 1 1	5	ANGLE 5
	1 0 0	0 0 1	1 1	1 1 1	1 1	6	-
	1 1	1 0	1 1	1 1	1 1		
	0 0 1	0 1 1	1 1 1	1 1 1	1 1 1	7	_
	1 0	0 0 1	1 1	1	1 1	8	-
	0 1 1	1 0	1 1	1 1 1	1 1		
	0 0 1	0 1 1	1 1 1	1 1 1	1 1 1	9	-
	1 0	0	1	1	1	10	_
	0 1 1	1 1 0	1 1 1	1 1 1	1 1 1		
	0 0 1	0 1 1	1 0 – 1	1 1 1	1 1 1	11	_
	1 0	0 0	0	1 1	1	12	HALF OPEN (CD insertion)
\downarrow	0 1 1	1 1 0	0 0 0	1 1 1	1 1 1		
0 P	0 0 1	0 1 1	0 0 0	1 0 – 1	1 1 1	13	-
E N	1 0	0	0	0 0	1 1	14	FULL OPEN (DVD insertion)

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- 1 2 3 4
- 4. Emergency Process
- 4.1. There are following 7 FLAP-related emergency conditions:
 - (1) Reversed insertion of a CD
 - (2) Insertion of an unreadable CD
 - (3) Half loading of CD
 - (4) Reversed insertion of a DVD
 - (5) Insertion of an unreadable DVD
 - (6) Half loading of DVD
 - (7) When there is a physical obstruction on sliding track
 - 4.2. FLAP process in emergency conditions
- B For (1), (2), (4), and (5),
 - The same process as normal insertion (LAST position after loading) is executed and then the error message is displayed.
 - No automatic ejection.

For (3) and (6),

- The same process as normal insertion (LAST position after loading) is executed.
- Basically, no sliding operation is executed if emergency status is detected before the sliding operation.
- If emergency occurs while sliding in open direction, it slides in close direction by 1 position and then stops sliding.
- If emergency occurs while sliding in close direction, it slides in open direction by 1 position and then stops sliding.

For (7)

- If emergency occurs while sliding in open direction, it slides in close direction by 1 position and then stops sliding.
- If emergency occurs while sliding in close direction, it slides in open direction by 1 position and then stops sliding.
- If sliding waveform change by angle key pressing, etc. does not appear for 500ms due to obstruction, etc., it slides in the opposite direction by 1 position and stops sliding.
- If it does not return to the position to be returned by 1 position in error even after 750ms, it stops at the position.
- If close sense SW does not turn ON for 500ms due to obstruction, etc. during transition to full close, it slides in the open direction from the current position by 1 position and then stops operating.
- If open sense SW does not turn ON for 500ms due to obstruction, etc. during transition to half or full open, it slides in the close direction from the current position by 1 position and then stops operating.
- 4.3. Emergency specification in CD/DVD disc error (above (1) (6))
- Operation is basically identical to normal discs, and the only special process is error message display.
- No processes such as automatic ejection of CD/DVD in error are executed basically.
- When a disc is inserted once, it can only be ejected by the DISC eject key.
- 4.4. Emergency display and alarm tone
- In case of a CD/DVD error (including reversed disc), the corresponding error message is displayed so that each error condition can be recognized.
 - An alarm tone is sound to notify sliding disabled conditions when sliding operation becomes disabled.

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5. FUNCTION CHART

	ACC OFF	No change
	ACC ON	No change
	Pressing of OPEN/CLOSE for more than 1 second	Full open
	Quick pressing of OPEN/CLOSE	Half open
1) Full Close (ANGLE 0)	ANGLE key	Normal 1 step DOWN ANGLE 1
(1) Full Clos		Normal

(2) Angle A	(2) Angle Adjustment (ANGLE 1~5)					
	ANGLE key	Quick pressing of	Pressing of	ACC ON	ACC OFF	
		OPEN/CLOSE	OPEN/CLOSE for			
			more than 1 second			
Normal	Angle +1 Full close Half open	Half open	Full open	Return to LAST	Full close	
	when ANGLE is 7			position after full		
				close		

rma a	Normal Angle +1 Full close when ANGLE is 7	пап ореп	rall open	Keturn to LAS I position after full close	Full close			
(3) Half Open	ue							
	ANGLE key	Quick pressing of OPEN/CLOSE	Pressing of OPEN/CLOSE for	ACC ON	ACC OFF	CD insertion	CD EJECT key	
			more than 1 second					
<u>_</u>	Normal Disabled	Return to LAST	Full open	Return to LAST	Full close	Return to LAST	CD ejection	
		position		position after full		position		
				close				
ᆲ	CD half Disabled	Return to LAST	Full open	Return to LAST	No change		Disabled	
		position after		position after				
		reloading		reloading				

ANGLE key	Quick pressing of	Pressing of	ACC ON	ACC OFF	CD insertion	DVD insertion	CD EJECT key	DVD EJECT ke
	OPEN/CLOSE	OPEN/CLOSE for more than 1 second						
Normal Disabled	Return to LAST position	Disabled	No change	Full close	Return to LAST position	Return to LAST position	CD ejection	DVD ejection
CD half Disabled	Return to LAST position after reloading	Disabled	Return to LAST position after reloading	No change			Disabled	
DVD half Disabled	Return to LAST position after reloading	Disabled	Reloading only	No change				Disabled

	During OPEN operation	1 angle CLOSE	1 angle CLOSE
	During CLOSE operation	OPEN to 45°	1 angle OPEN
(5) Obstruction		Less than 45°	45° or larger

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ACC OFF IDLE STOP OP STAND-BY TASK OFF chattering : 8ms to 10ms В 3 seconds OURCE ON, MUTEVOL release. С Dropped down after waiting for 500μs. (Guarantee time as the SDRAM back up.) D 5ms Е F

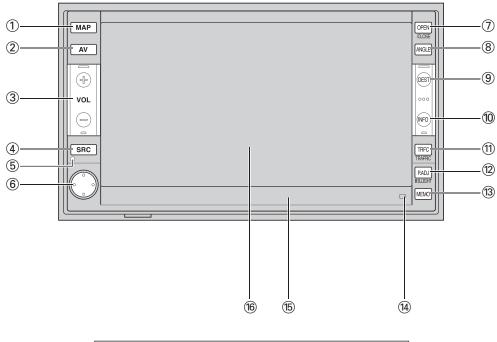
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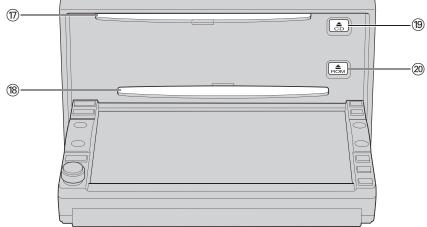
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Navigation Unit

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This section gives information about the names of the parts and main features using the buttons.





(1) MAP button

Press to view the map or return to guidance. Also, when the map is scrolling, pressing this button returns you to the display of the map of your surroundings. Use to switch the view mode of the navigation when the map of your surroundings is displayed. If you press this button while in the audio operation screen, the screen changes to the Navigation map screen.

(2) AV button

Use to switch between Navigation map screen and audio operation screen.

(3) VOL (+/-) button

Pressing on the + side of the button to increase the volume while pressing on the - side of it to decrease the volume.

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(4) SRC (SOURCE) button

This unit is turned on by selecting a source. Press to cycle through all of the available sources. Press and hold to turn the source off.

(5) RESET button

5

Press to return to the factory settings (initial settings). Some information items are not erased.

(6) Joystick

Move to do manual seek tuning, fast forward, reverse and track search controls, etc. Push to display the menu for the Audio operation.

(7) OPEN/CLOSE button

Press to open or close the LCD panel and access the CD and DVD-ROM loading slot. Operation varies depending on the position of the LCD panel and the length of time of pressing this button.

(8) ANGLE button

Press to change the LCD panel angle.

(9) DEST button

Press to display the **Destination** menu.

(10) INFO button

Press to display the Info/Traffic menu.

(11) TRFC button

When the XM tuner (GEX-P10XMT) is connected*:

Preset button for XM Instant Traffic & Weather audio service. Select XM audio source, and find appropriate Instant Traffic & Weather channel. Hold down this button while on this channel to assign preset.

When the XM tuner (GEX-P10XMT) is not connected:

Not used.

(12) P.ADJ/B.LIGHT button

Press to enter the **PICTURE ADJUST** mode.

Press and hold to turn off the back light of the LCD panel. To turn on the back light, press this button again.

(13) MEMO button

When the XM tuner (GEX-P10XMT) is connected and the XM source is selected*:

Press and hold this button to memorize the track currently being played.

This button flashes when the memorized track is playing on a station other than the one which you are currently on. If you press this button while it is flashing, the station changes to the one playing your track.

When the XM tuner (GEX-P10XMT) is not connected:

Not used.

(14) Ambient light sensor

Senses ambient light. This system automatically adjusts the brightness of the display to compensate for ambient light.

(15) LCD panel

(16) LCD screen

(17) CD loading slot

Insert a CD to play.

(18) DVD-ROM loading slot

Insert a DVD Map Disc.

(19) CD EJECT button

Press to eject the disc from the CD loading slot.

(20) DVD-ROM EJECT button

Press to eject the disc from the DVD-ROM loading slot.

*: GEX-P10XMT sold separately is required, in addition to an active subscription to XM Satellite Radio service.

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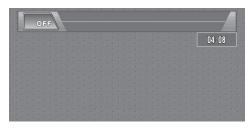
Turning the Unit On and Selecting a Source

A CAUTION

- If the program is not installed, see Operation Manual and install the program.
- 1 Turn the ignition switch (ACC) ON.

 The Navigation System's power supply

The Navigation System's power supply comes on.



2 Press SRC button to select a source.

Press **SRC** button repeatedly to switch between the following sources:

"XM" (XM tuner) — "SIRIUS" (SIRIUS tuner)

—"RADIO" (tuner) — "TV" (television) —

"AV" (video input) — "S-DVD" (DVD player/multi-DVD player) — "CD" [CD, MP3/WMA/WAV](built-in CD drive) — "M-CD" (multi-CD player) — "EXT-1" (external unit 1) — "EXT-2" (external unit 2) — "AUX" (Auxiliary equipment)

Press and hold to turn the source off.

In the following cases, the sound source cannot be used

- When a unit corresponding to each source is not connected to this unit.
- When no disc is set in the CD loading slot.
- When no disc is set in the DVD-player ("S-DVD").
- When no magazine is set in the multi-CD player.
- When no magazine is set in the multi-DVD player.
- When the "AUX" (auxiliary input) is set to off.
- When the "AV INPUT" (video input) is not set to "VIDEO".

External unit refers to a Pioneer product (such as one available in the future) that, although incompatible as a source, enables control of basic functions by this unit. Two external units can be controlled by this unit. When two external units are connected, the allocation of them to external unit 1 or external unit 2 is automatically set by this unit.

When this unit's blue lead is connected to the vehicle's auto-antenna relay control terminal with the "AUTO ANTENNA" is set to "SOURCE", the vehicle's antenna extends while this unit's source is turned on. To retract the antenna, turn the source off.

Adjusting the Volume

 Use VOL (+/-) to adjust the audio sound level.

With this product, press **VOL** (+/-) to increase or decrease the volume.

To adjust the navigation volume, go to the navigation menu.

Turning the Source Off

Press SRC button and hold until the source turns off.

This product can be switched off by turning the ACC (ignition) OFF.

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Inserting/Ejecting a Disc

A WARNING

 Do not use with the LCD panel left open. If LCD panel is left open, it may result in injury in the event of an accident.

A CAUTION

- Do not open and close the LCD panel with hands by force. This may cause malfunction.
- When opening, closing and adjusting the angle of the LCD panel, be careful not to get your finger caught.

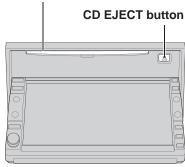
The LCD panel will be closed automatically with the turning of the ignition switch.

Inserting a CD

1 Press OPEN/CLOSE button.

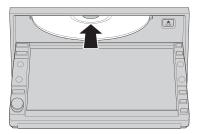
The LCD panel opens halfway, and the CD loading slot appears.

CD loading slot



To close the LCD panel, press **OPEN/ CLOSE** button again.

2 Insert a CD into the CD loading slot.



If you insert a CD, the LCD panel closes automatically, and then format reading will start.

Make sure the CD loading slot is empty before inserting a CD into the slot.

When a disc is already loaded in the CD loading slot, select the CD source by pressing **SRC** button.

You can use **AV** button to switch between navigation map displays and audio operation displays.

The built-in CD drive plays one, standard, 12-cm or 8-cm (single) disc at a time. Do not use an adapter when playing 8-cm discs.

Do not insert anything other than a disc into the CD loading slot.

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If you cannot insert a disc completely or if a inserted disc is not recognized, check that the label side of the disc is up. Press **CD EJECT** button to eject the disc, and check the disc for damage before inserting the disc again.

If the built-in CD drive does not operate properly, an error message such as ERROR-11 may be displayed.

Ejecting a CD

- 1 Press OPEN/CLOSE button. The LCD panel opens halfway.
- **2** Press CD EJECT button. The CD is ejected.
- **3** Press OPEN/CLOSE button. The LCD panel closes.

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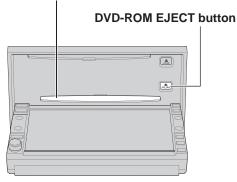
R

Inserting the DVD Map Disc

1 Press and hold OPEN/CLOSE button.

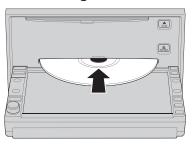
The LCD panel fully opens, and the DVD-ROM loading slot appears.

DVD-ROM loading slot



To close the LCD panel, press **OPEN/ CLOSE** button again.

2 Insert the DVD Map Disc into the DVD-ROM loading slot.



If you insert the DVD Map Disc, the LCD panel closes automatically, and then format reading will start.

Make sure the DVD-ROM loading slot is empty before inserting a DVD Map Disc. Inserting the DVD Map Disc reboot DVD navigation mode.

Do not insert anything other than a disc into the DVD-ROM loading slot.

If you cannot insert a disc completely or if a inserted disc is not recognized, check that the label side of the disc is up. Press **DVD-ROM EJECT** button to eject the disc, and check the disc for damage before inserting the disc again.

Ejecting the DVD Map Disc

- 1 Press and hold OPEN/CLOSE button. The LCD panel fully opens.
- **2** Press DVD-ROM EJECT button. The DVD Map Disc is ejected.
- **3** Press OPEN/CLOSE button. The LCD panel closes.

Adjusting the LCD Panel Angle

A CAUTION

- Do not open and close the LCD panel with hands by force. This may cause malfunction.
- When opening, closing and adjusting the angle of the LCD panel, be careful not to get your finger caught.

The LCD panel will be closed automatically with the turning of the ignition switch.

Press ANGLE button to adjust the LCD panel to an easily viewable angle.
 You can adjust the angle of the LCD panel every time you press the ANGLE button.
 The LCD panel angle continues changing as long as you press ANGLE button and hold.



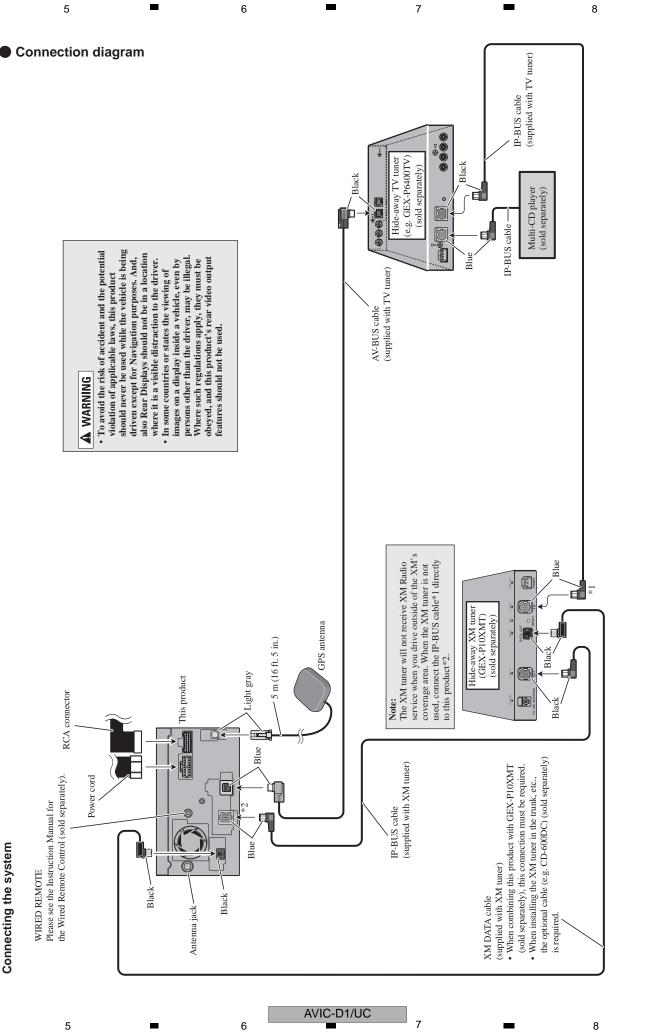
When you press the **ANGLE** button with the maximum angle, the LCD panel closes all the way.

The adjusted angle of the LCD panel will be memorized and the LCD panel will automatically return to this angle the next time the turning of the ignition switch (ACC) on.

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Α

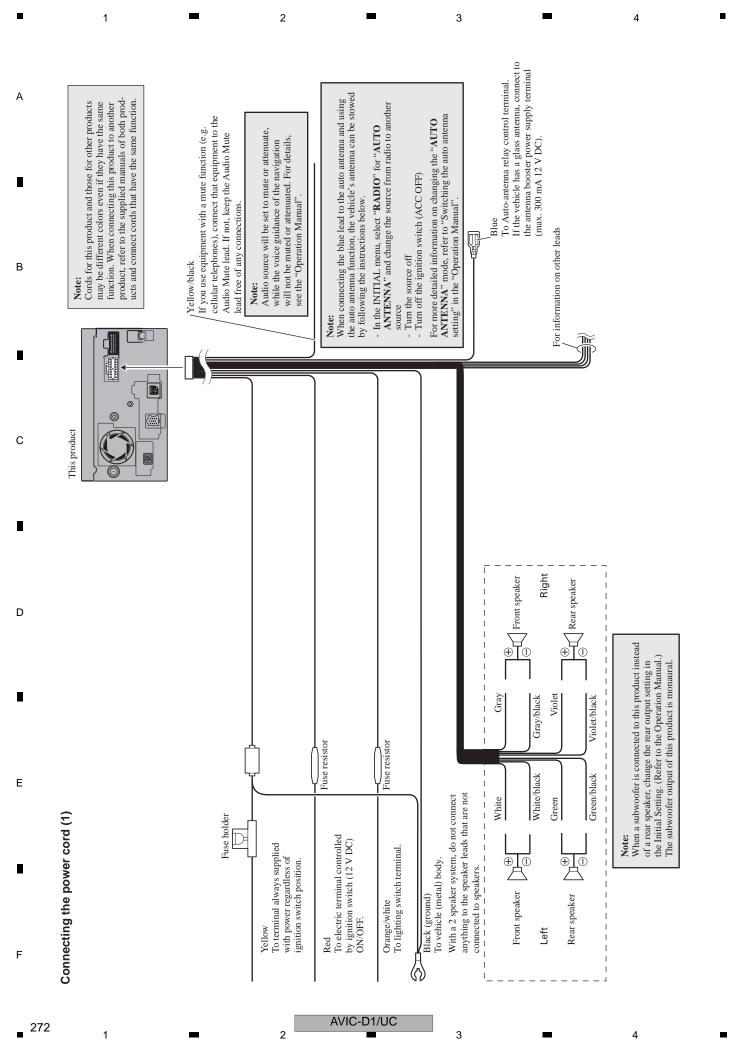
В

С

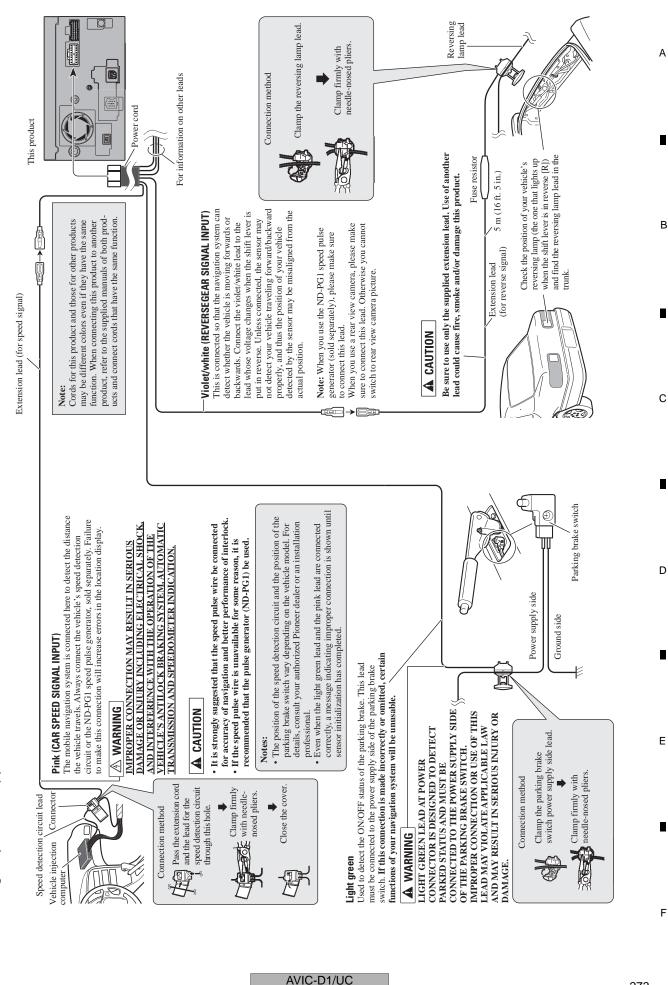
D

Е

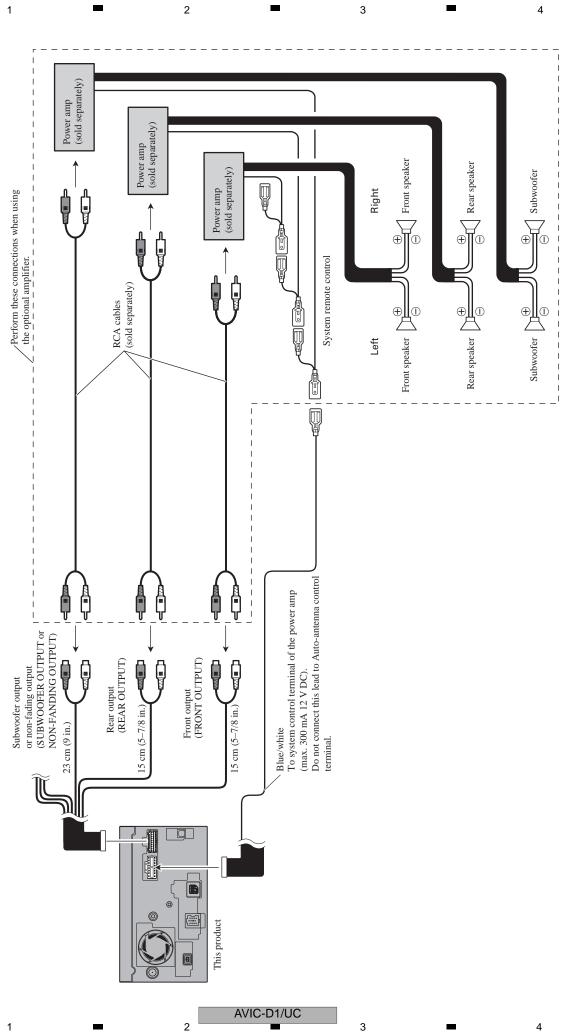
F



5 • 6 • 7 • 8



Connecting the power cord (2)



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When connecting to separately sold power amp

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After Installing this product

1. Reconnecting the battery.

First, double-check that all connections are correct and that this product is installed correctly. Reassemble all vehicle components that you previously removed. Then reconnect the negative (–) cable to the negative (–) terminal of the battery.

2. Start the engine.

5

3. Press the RESET button on this product.

Press the RESET button on this product using a pointed object such as the tip of a pen.

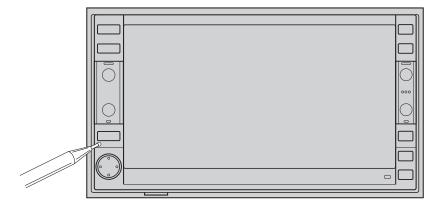
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4. Enter the following settings:

- 1 Install the program in the navigation system.
- 2 Make any necessary installation angle adjustments.
- 3 Drive until the initialized sensors start operating normally.
- 4 Set the time and language.

After installing this product, be sure to check in a safe place, that the vehicle is performing normally.

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Jigs List

Name	Jig No.	Remarks
45-Pin FFC	GGD1321	DVD Mechanism Module(MS3)(CN601) <> CC Unit(CN2)
23-Pin BBR FFC	GGD1307	CD Mechanism Module(S10.1)(CN901) <> System Unit(CN1301)
80-Pin FFC	GGD1406	System Unit(CN1701) <> CC Unit(CN605)
20-Pin Extension Cord	GGD1327	System Unit(CN1802) <> CC Unit(CN801)
30-Pin FFC	GGD1171	CC Unit(CN702) <> Connector Unit(CN2804)
33-Pin FFC	GGD1262	CC Unit(CN701) <> Monitor PCB(CN5002)
Monitor Adjustment PCB	GGF1416	For OSD display (*1)
Test Disc	GGV1237	Operation check
Test Disc	TCD-782	Checking the grating(CD)
L.P.F.		Checking the grating(Two pieces)
Test Disc	GGV1018	Checking the grating(DVD)



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Before shipping out the product, be sure to clean the following portions by using the prescribed cleaning tools:

Portions to be cleaned	Cleaning tools
DVD, CD pickup lenses	Cleaning liquid: GEM1004
	Cleaning paper: GED-008

Portions to be cleaned	
Fans	Cleaning paper: GED-008

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